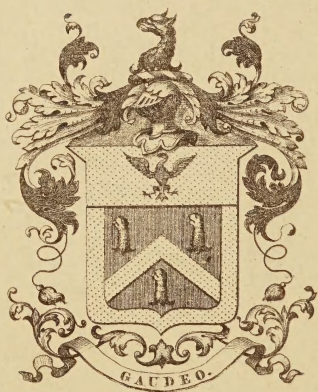
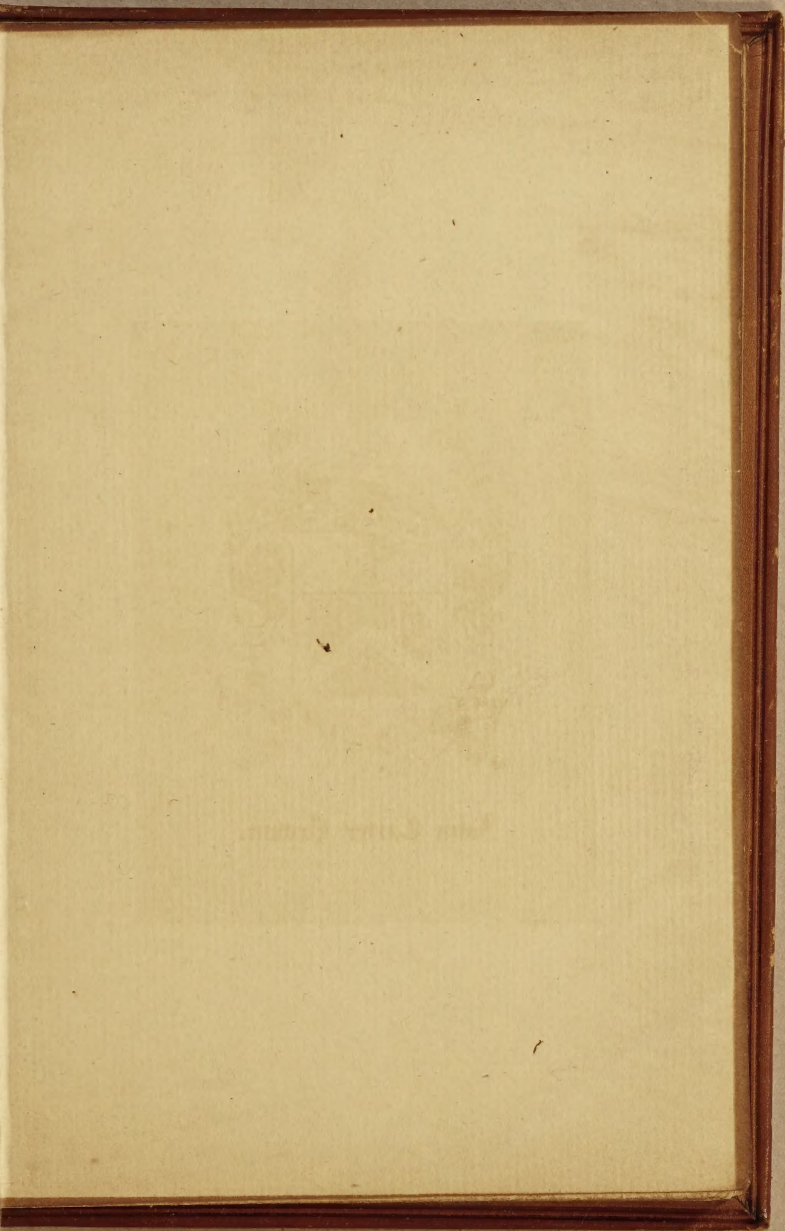


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John Carter Brown.





*Not on Porcelain, c*

THE INDIAN DOCTOR, or a Discourse concerning CHOCOLATE,  
with the Nature of the Cocoa Nut, the way of Compounding  
and Preparing it, its Alimental and Venereal Qualities, &c., by  
*Henry Stubbe*, Physician to the Island of Jamaica, &c., small  
8vo., *beautiful copy, in full calf antique, gilt edges, a British-*  
*Museum Duplicate, 1787, a very rare and curious Book, not*  
*mentioned in Rich's or Ternaux's Catalogues,* Lond. 1662



# Indian Nectar,

OR A  
DISCOURSE  
CONCERNING  
CHOCOLATA:  
WHEREIN

The *Nature* of the *Cacao-nut*, and the other Ingredients of that Composition, is examined, and stated according to the Judgment and Experience of the *Indians*, and *Spanish Writers*, who lived in the *Indies*, and others; with sundry additional Observations made in *England*: The ways of *compounding* and preparing *Chocolata* are enquired into; its Effects, as to its *alimental* and *Veneréal* quality, as well as *Medicinal* ( especially in *Hypochondriacal Melancholy* ) are fully debated. Together with a *Spagyricall Analysis* of the *Cacao-nut*, performed by that excellent Chymist, *Monsieur le Febvre*, Chymist to His Majesty.

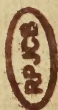
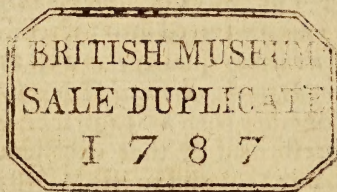
By Henry Stubbe formerly of Ch. Ch. in Oxon. Physician for His Majesty, and the Right Honourable Thomas Lord Windsor in the Island of Jamaica in the West-Indies.

Thomas Gage, Survey of the West-Indies. chap. 15.

Here [ in a certain part of Guaxaca ] grow many Trees of Cacao, and Achiotre, whereof is made the Chocolatte, and is a Commodity of much trading in those parts, though our English and Hollanders make little use of it, when they take a prize at Sea, as not knowing the secret virtue and quality of it for the good of the Stomach.

— Videant, intabescantque reliqua.

London, Printed by J.C. for Andrew Crook at the Sign of the Green Dragon in St. Paul's Church-yard. 1662.







To my Learned Friend Dr. Thomas Willis Doctor of Physick, and Reader of Natural Philosophy in the University of Oxon.



When I first entered upon the practise of Physick, I had the Honour of your Testimonial: and I now publickly acknowledge as well your favours, as that worth, which is universally known, and admired. Were I to celebrate your Panegyrick, I should not doubt to represent you as a second to Harvey: and I should not fear the resentments of others, if I compared him to Phrynis, whilest you are the Timotheus in Physick. But this is not my present Designe; but to tell you, I have finished the Discourse I promised you, of Chocolata: and I have augmented it beyond my thoughts, or yours. This Writing, as well as the Chocolata I presented to His Majesty, wants that perfection, which Time was to give it; I wish it have so good fortune, to please, as that did. I shall from Jamaica give you



*The Epistle Dedicatory*

a better Book, and (I believe) better Chocolata. And it is my resolution so to employ myself there, that I may not fail the expectation so many Eminent Persons have of me; nor will I ever see England, but with the satisfaction of having done something considerable.

That you may know how great Incentives I have to study, besides my own unspeakable inclinations; There are more then ordinarily interested in me, besides the King's Majesty; who alone is so great a promoter, and so competent a judg of merit, that to an Ingenuous Person there needs no farther inducement to deserve. But, besides Him, there is the Honourable Robert Boyle Esquire, Dr. Quatremain, Dr. Frasier, Physicians to His Majesty, and several other Honourable and Learned Personages. But, amidst so many concurring favourers, and abettours, if I tell you, that I allow a peculiar esteem, and remembrance for Dr. Willis, it is no more, then the real sentiments of one, who infinitely admires you, who is

Sir, your obliged humble

London, April  
12. 1662.

Servant

Henry Stuble.

JOHN CARTER BROWN

The Preface to the Ingenuous  
R E A D E R.

This *felicity*, since that God put so great a *value* on it, that he generally in *Scripture* makes it a *Type* of the *Celestial enjoyments* hereafter, and *illustrates* them hereby, as being no odious *Comparisons*; and since the *result* of *Solomon's wisdom*, regulated by *inspiration*, and *experience*, amounts to this; That he hath *perceived*, and *seen*, that it



*The Preface.*

*Eccles. ch. 2. is good, and comely, and that There is nothing  
v. 24. ch. 3. v. better for a man, then that he should eat, and  
12, 22. ch. 5. v. drink, and enjoy the good of all his labour ;  
17. ch. 8. v. 15.* upon these Considerations, I did think it  
merited my peculiar regards : and howbeit  
the preached, but unpractised ( and in many  
parts false, and fictitious ) Doctrine of *Morti-*  
*fication* did seem to condemn such Enquiries ;  
and the promulgation of them might seem  
to encourage, or instruct men in *Sensuality*,  
( a thing inconsistent with *Christianity*, and  
that course of life, which I have followed  
so, as that *Presbytery* it self, that is, *Malice*  
and *Dis-ingenuity* heightened with all the cir-  
cumstances imaginable in men on this side hell,  
could never fix the least imputation upon me )  
yet I thought, I ought not too much to re-  
spect accidental abuses ; not to regulate my  
self by what seemed fit, or true to others, but  
what was really so, and conformable to  
*God's word*, and the primitive practise : both  
which ( if we make not the Opinions of  
*Monks*, and men retired unwarrantably  
*extra seculum*, to be the sole Standard of  
truth, and practise ) did not repugn with  
my designed Speculations.

The late changes in our Nation have dis-  
engaged me from my former adherencies ;  
and



*The Preface.*

and I have no longer a regard, or concern for *St. Henry Vane*, or *Gen. Ludlow*, then is consistent with my sworn *Allegiance*.

And I think, His Majesty is of so *generous a nature*, and of so *transcendent a Grandeur*, that I shall as little offend him by *this Declaration*, as I shall by the *following course of my life*, wherein I shall make Him all those returns, that the most *deserving*, and the most *obliging person*, and *Prince*, may expect from an ingenuous and resentive *Servant*, and *Subject*. It is but fitting, that so unparallel'd a *candour*, as His Majesty hath practis'd, should meet with *reciprocal acknowledgments*: and however it be accounted the *fate of Kings*, to *do well*, and to be *ill spoken of*; I think it a very hard *destiny*: and, though I have a very despicable opinion of the *present age*, yet I hope it will not be guilty of any such *unworthiness* towards our *Sovereign*. I shall make it my publick Profession, *Never did any* (saying, that I never violated a *sworn Allegiance*, nor took the *Covenant*, nor subscribed the *Engagement*) *never did any ever offend*, or *experiment a greater Goodness*. I go not about to extenuate my Crimes by saying, *Rebellion loses its name*, where *Presbytery is opposed*;

or, that *The attempt in me was but the acknowledgment of uncommon favours received from others.* I am indebted to His Majesty for more, then an *Act of Indemnity and Oblivion.* His *Liberality* hath prevented my Services, and I already have had that Honour and Reward conferred on me, which to deserve I must change my *resolutions* into *actions*, and be what I intend. Were my *King* of a *less merit*, I should fear, that what I say might be apprehended not as the *dictates of Truth*, but occasioned by a *sence of Duty*, or *Flattery*: but he possesseth all *Heroick Virtues* in so peculiar a maner, that *Envy* it self must say, that it is want of *Time*, or *deficiency of Language*, not want of a *besitting Subject*, which makes me to enlarge no further.

I promised my ever-Honoured and Learned Frind Dr. *willis* an account of *Chocolata*: and being detained beyond my expectation at *London*, to receive the benefit of what His Majesty had given me by way of *Advantage* to go into *Jamaica*, the Right Honourable the Lady *windsor*, a Lady, that owes her *Elogy* and *Title* not more to her *Degree*, then *worth*, gave me occasion to renew those intentions, and to make some *Essays* in compounding *Chocolata*; which first found

*The Preface.*

found her approbation, and then the Kings, Had I written before, I could only have given an account what others had said, or done; now I can vouch my own *experience*, and that I am not altogether unacquainted with what I *write of*. I know, that Time and Opportunity might have polished the Work, and better'd my Enquiries. If I was *impatient to do nothing*, I had not leasure almost to do any thing. I have given as good an account of things, as I could either from my *own little tryal*, or the *report of others*. I have represented each *Authour* in his own words: and where I seem to speak concerning the modern practise in *Spain*, my intelligence is not the less true, because the margin doth not warrant it by some citation. Sundry Digressions are rather attempted, then pursued; but, if I live any time in *Jamaica*, I shall in a second edition correct the imperfections of this; many whereof are unavoydable to me, because I have not seen the Ingredients of *Chocolata* growing, nor made such *Analyses* of them, as are requisite to discover their nature.

I write not out of a designe to advance the repute of our *West-Indy* Commodities in the making *Chocolata*. What I say is the  
Asse-



*The Preface.*

Assertion of others, who did not intend by their Writings to serve the *English* Interest in *Jamaica*. The *Spanish* Dr. *Juanes de Cardenas* says as much as I do, viz. that Persons of a *vigorous* and *healthy* Constitution ought not to drink the same *Chocolata* with others of a more *cold* and *phlegmatick* Complexion: but to have a Composition of their own mixed with fewer Spices, and those of *West-Indy* growth ( which, he saith, were created for that use ) and to be taken with *Atolle*. His words are *Los tales* ( sc. those of a Complexion inclined to heat ) *bebale con Atolle* ( that being of a temperate nature ) *y echele mui poca especie, y essa antes sea de la tierra* ( sc. of *Jamaica*, or *Tabasco* ) *que de Espanna, por que la de aca parece, que solo fue criada para esso.*

Not have I more endeavoured to serve myself, then the *Island* in the subsequent Discourse: for I obtrude not on the world a bad *Chocolata*, having shewed the errours and hazards in the vulgar compositions, but what his Majesty approved (a) [ then whom

(a) It is the same, that is used in *Mexico* and brought from *Guaxaca*

to the *Spanish* Court, and now used there: it varies in nothing, but what is more peculiar to the *Spanish*, then *English* gust. I call it *Chocolata-Royal*, because the *Spaniards* do so, whom I follow; and it is usual with that Nation, to express an excellent *Manjar* by the Title of *Royal*.

there

*The Preface.*

There can be no more competent [Judg] and what hath received the commendation of others well-acquainted with the variety of *Chocolata*, sold, and made in this Nation. I have set down the ways of *Ledesma*, and *Zacchias*, and the way, by which the *Chocolata* is commonly made. And I have left in the hands of an *honest* though *poor* man, *Richard Mortimer* in *Sun-Alley* in *East-Smith-Field*, both my common-*Chocolata-receipt*, and that other of *Chocolata-Royal*; both which are fitted for the use of such as are in health, or not of a very weak stomach, being made up with *milde Spices* of *Jamaica*, and such, as may securely be used by the most healthy. They, who would have particular *Chocolatas* made, may have recourse to him, and rely upon his honesty to prepare them carefully according to my Method: which, though infinitely laborious, he is resolved to follow. I chose him, because I found him, of all others, tractable to observe my directions, and to make what Experiments I pleased: he lived in *Spain* many years, and is as *skilful*, as *honest*. He will attend on any *Physician* of note to receive his directions, as also to inform him, (if he would vary from my ways by any addition) what

*The Preface*

what may be added, and what quantity to each proportion of *Chocolata*.

I gave him the *Receipts* not only as a reward for the pains and trouble I put him to ; but out of a sense of publick utility, there being so many frauds in the making of it, it being so ill wrought up ( whence comes the settling ) besides the mixture of several Ingredients either hurtfull, or impertinent. The way I make my *Chocolata-Royal* agrees almost altogether with that, which is followed in the Court of *Spain*, where the mixture of *Anise-seeds*, *Nutmeg*, and *Maize* is disused, and confined only to the common *Chocolata-sellers*. Whilest ( to give you the words of a Learned Spaniard ) This other Composition seems to have all that perfection, which attends the last designs, and contrivances of Men, after many fore-going tryals ; and which is observed to displease nobody : all the change of Ingredients for so many years past did but prepare way for this ; which he observed to continue in a very good body, the Ingredients exactly fermenting, and having an excellent scent: and the Taste is neither hot, and biting, nor totally insipid. I shall not vary any thing from my way here in *England*, but perhaps at *Jamaica* I may

im-



*The Preface.*

improve it much, both in the *making it up*, which I suppose may better be done here, then here; but will give no reason, (all I see it to be true) and in the adding some *Ingredients*; which if it succeed, I shall take care, that *England* know it, and have the benefit thereof.

Because that *Richard Mortimer* lives so far off, I have appointed, that his *Chocolata* of both sorts shall be to be sold at Captain *Beckford's* at the *Custom-house-key*: the best *Chocolata*, call'd *Chocolata-Royal*, will cost six shillings six pence each pound, weighing about thirteen ounces, or somewhat more: the ordinary *Chocolata*, weighing about fifteen ounces each pound, will cost three shillings and eight pence. And in the same place they may be furnish'd with the best *Cacao-nuts*, which I could yet ever see in *London*; and also with *Jamaica-Pepper*.

I shall conclude with this Premonition: that the ensuing *Discourse* was written at a great distance from my own *Library*, in a place, where frequent interruptions, and diversions scarce ever yielded me an hour's leisure entire to my self: and, as this is a sufficient excuse for its many imperfections, so it must particularly *Apologize* for several

*The Preface.*

several Repetitions, which will occur; for having not time to review what I had written, and being willing to omit nothing I have, I believe, repeated several times the same thing. But, *if it please God*, I arrive safely at *Jamaica*, and enjoy that settlement, which I promise my self from the right Honourable the Lord *Windsor*, (my singular good Friend, and Patron, and the worthy Governour of *Jamaica* under His Majesty; one in whom concur those Qualities, that might justly recommend him for so important a charge to the choice of the best and wisest of Princes, Loyalty, Valour, Prudent Conduct, Moderation, and Affability; and under whose Government no Man ought to entertain other despair, than what *his own* worthlesness creates in him) when I shall be safe and secure there, and amidst my *own* Books, as well as the *Simple*s mentioned here, then I will revise, and so enlarge this Work, that nothing shall be wanting thereunto.

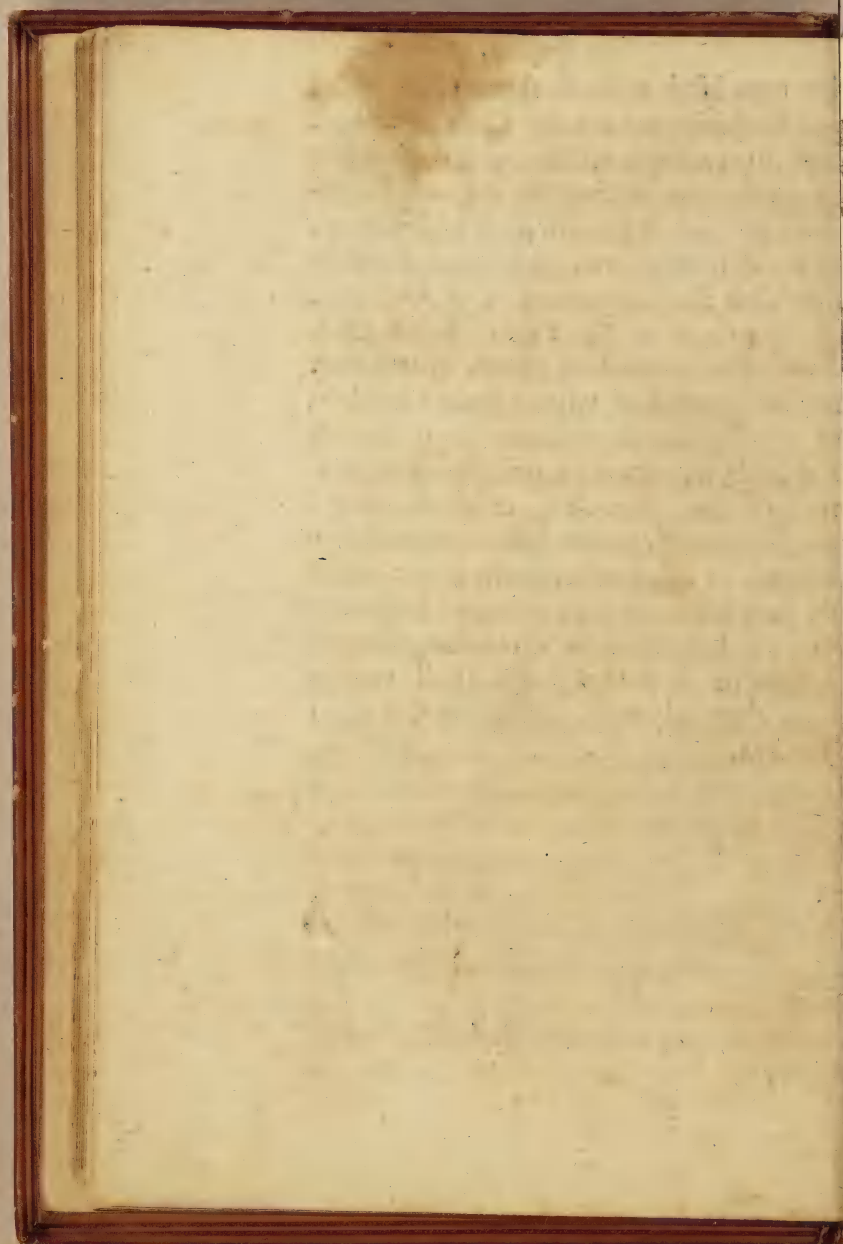
*Nunc te marmoreum pro tempore fecimus; at, tu,  
Si futura gregem suppleverit, aureus esto.*

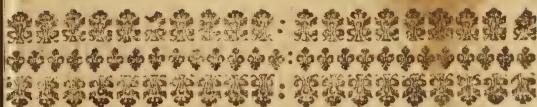
And, as I shall endeavour wholly to oblige

*The Preface.*

ge man-kind with further Observations  
nd Enquiries concerning *Chocolata*: so, I  
ope, my example will stir up others to the  
ke performances; and that Persons of inge-  
uity will either publish their *Observations*,  
or direct them to me, and leave them ei-  
ther with the Lady *Windsor*, or with Mr.  
*Andrew Crock* in *St. Paul's Church-yard*,  
*Book-seller*, to be sent to me, that I may  
not be ignorant of what effects *Chocolata*,  
or its particular Ingredients have here in  
*England*; what new preparations and mix-  
ure of the *Cacao-Nut*, or *Spirit*, or *Oyl*  
are *successfully* contrived, or *ingeniously*, to  
inform, or otherwise benefit men: and I  
do here solemnly profess, that I shall ren-  
der all such Persons their due acknow-  
edgment in *publick*, and shall readily  
serve them any way, during my being in  
*Jamaica*.







A

# DISCOURSE

CONCERNING

## CHOCOLATA.

---

C H A P. I.

*Concerning the Name of Chocolata, and its being universally used.*

**T**He drink called ordinarily *Chocolata* is by the *Indians* called a *Chocolatl*: and is compounded of *Atte*, as some say, or, as others, *Atl*, which in the *Mexican* language signifies *water*; and from the *sound*, which the *water* (wherein is put the *Chocolata*) makes, as <sup>b</sup> *Choco*, *Choco*, when it is stirred in a cup by an Instrument called a *molinet*, or *molinillo*, untill it bubble, and rise into a froth. I shall not pursue other derivations of the name, it

B                      being

a Hernandez herb. Mexic. l. 3 c. 46. Gul. Piso in Mantiss. Aromat. c. 17.  
b Gage's Survey of the West-Indies, c. 16.



It is called *Chicolate* in *Jaques Am-proux*, of the *Antilles*, c. 16. and *Succolata*, *Chocholate*, as *c Acoſta*; or *Succulata*, as *d* by *Schroder*.

*Pharmac.* l. 4. *c Acoſta* *Hiſtor.* nat. & moral.

*Indiar.* l. 4. c. 22  
d

e *Hernandez*

l. 2. c. 4.

f *Hernandez*

l. 3. c. 41. l. 5.

c. 13.

g *Hernandez*.

l. 5. c. 41.

h *Gul. Piſo* in *Mantiſs.* Aro-mat. c. 17.

i *Gage* c. 16.

*Piſo* in *Mantiſs.* Aromat. c. 17.

c. 17.

k As *Hernandez*, *Piſo*, *Zac-chias*, *Severinus*, & others.

being ſufficient, that we underſtand one and the ſame thing by the ſeveral appellations of *Chocolatl*, *Chocolata*, (ſo it is uſually called) *Chocolatte*, as *Mr. Gage* names it; or *Mynſicht* terms it; or *c Cacaotl*, and *f Cacaoatl*, and *g Cacauatl*: all which names it bears in the *Mexican Herbal*, as well as that of *Chocolatl* aforeſaid.

In *America* ſeveral Countries have ſeveral drinks made out of roots and fruits variously prepared. The Northerly <sup>h</sup> tract thereof principally ſeems to uſe the drink called *Chocolata*, in *New Spain*, *Mexico*, and the neighbouring Provinces. If we may believe *Dr. Juanes de Barrios*, who lived in thoſe parts, it hath been immemorially drunk in the Province of *Guatemala*, and as particularly appertains to that Country, as *Mead* to *Lithuania*, and *Ale* to *England*; however it may have diffuſed it ſelf into other parts. And indeed it hath prodigiouſly ſpread it ſelf not only over the *Weſt Indies*; but over <sup>i</sup> *Spain*, *Portugal*, *Italy*, *France*, high and low *Germany*, and *England*, yea *Turky*, and *Persia*: and hath been recommended by ſundry learned <sup>k</sup> *Physicians* to the world. So that it may well merit our regards to enquire into the *Nature* and *Reason* of a drink endeared unto us by ſo great a repute, as the *General uſage* of the *Nobility* and *Populace* of both *Sexes*, and the *Authority* of the learnedſt and moſt obſerving perſons can give it.

It

It is so generally used in the *Spanish Colonies* of the *West-Indies*, by the Natives, and other Inhabitants; that it alone makes up both the necessary provision for their *sustenance*s, and their *delicacies* for extraordinary entertainments for pleasure. This is confirmed by the general vogue of the *Indian* writers: and whosoever shall have read Mr. Gage will no longer doubt it, when he shall find, besides the particular Chapter, in which he designs a special account of it, (most of which is transcribed out of *Anton. Colmenero de Ledesma*) how at sundry times he was treated there, with by way of a magnificent collation: and, being to travail, he makes a store of *Chocolate* to be as important a care, as any for a journey. In *Spain* it is drunk all Summer, once, or twice a day; or, indeed at any time, by way of entertainment: for however *Physicians* there endeavour to confine the people to Rules, yet is it generally drunk without regard to any: and it is there, as well as in the *Indies*, all the year long. It is drunk, by the allowance of the *Physicians*, once, or twice each day: and by the prevalence of custom, as often as there is occasion for entertainment, or that one is tyred through business, and wants speedy refreshment. There is a controversy about the convenience of taking it in Summer; since *Anton. Colmenero* disallows it beyond *May*. But others, as learned and observing as he, permit it all the year: and for Experience



(which he takes notice of) they vouch the general practise of *Sevil*, both of the King, Court, and City. *Nobis videtur consultissimum omni ætatis tempore potionem sumere Chocolatis.* Et, si ad comprobationem valet *Experientia*, hoc in communi vita civium *Hispalensium* (cum sit hæc calidissima regio) ita feliciter sentitur ab omnibus, ut illo carere sit apud illos infelicitas major. Et huic accidit, quod illo tempore sit hominum natura laxa maxime, & fere dissoluta: & si verum fari licet, neminem per hæc tempora video a Chocolate abstinere, neque inter intemperantes Proceres, neque temperatissimos Hispaniæ Reges, nec mediæ fortune cives. Et nobis certe videtur, nullo magis tempore, quam æstate prodesse Chocolate. 'I think it most fit to take Chocolate all Summer long. And, if we recurr to Experiments, this is the general practise of the 'Inhabitants of *Seville* (which yet is a most 'hot country) so that they count it a great 'misfortune to be deprived of it. Besides, at 'that time of the year, our bodies suffer a 'greater exolution of Spirit, and are more 'relaxed in their Pores, then at other times. 'And, to speak the truth, at this time of the year, I observe, that neither the most intemperate Courtiers, nor the most temperate 'Kings, nor vulgar Citizens do refrain it. 'And I think it never more necessary, then 'at that season of the year. To evidence further the prevailing use of *Chocolata*, we are to know, that in *Spain*, as well as the *Indies*, people

people will not refrain it on *fasting-daies*; and it is become a *Case of Conscience* managed with more then ordinary *contests*, Whether the *taking of Chocolata* be a *violation of Ecclesiastical Fasts*? The *Moralists* and *Physicians* divide upon it: nor is there one considerable *Argument* produced for the *necessity of taking it on Fast-days*, and so of reconciling it to *Ecclesiastical Fastings*, but that of *custom*: which how *authentique* an argument it is in this *Case*, I leave to the disputes of others; being content to have proved the *universal acception* of this drink amongst the most *sober* and *wisest* of men.

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## CH A P. II.

### *Concerning the Composition of Chocolata.*

**B**EING now to speak more particularly of *Chocolata*, to prevent ambiguities, I must tell my Reader, that however I have in the foregoing Chapter spoken of *Chocolata* as a drink, accordingly as it is ordinarily mentioned by Writers, and in vulgar speech; yet now I shall speak of it as a *paste*, or *mass*, made into *cakes*, *lumps*, *rouls*, *lozenges*, or enclosed in *boxes*, (as it pleaseth the worker to make it up) which is to be dissolved in the water, and so makes but a *part* of the *potion*, or *drink*, yet is ordinarily termed *Chocolata*, though not without some impropriety



priety of language, if we credit the already-mentioned derivation of *Chocolatl*.

The *Indians*, as they in all things almost affect a simplicity, so in the making of *Chocolata* they did not multiply Ingredients; and cared rather to preserve their health, than to indulge their palates: of which they have been so solicitous, that, had not the *Spanish* luxury and curiosity varied its composition with multiplicity of mixtures, either we had never been acquainted with this drink, or we must have been contented to be treated, as the invincible Cortez was by Motezuma, the last and most illustrious King of Mexico. Bernaldus del Castil'lo, one of Cortez his Souldiers, relating his own exploits under that famous General, in his Chapter entituled, <sup>a</sup> *De la manera y persona del grande Motezuma, y de quan gran Sennor era*, makes report of the stately Banquets of that Prince; and adds, *Triante frutas de todas, quantas avia en la tierra, mas no comia, si no mui poca, y de quando en quando: trajan unas como copas de oro fino, con cierta bebida bucha del mesmo Cacao, que deslian era para tener acceso con mugeres, ( en este lengua se habla ) enforces no miravamos en ello mas lo que yo vi, qua trajan sobra cinquenta jarros grandes hechos de buen Cacao, con su espuma, y de lo que bebia, y las mugeres le servian al beber con gran ocató: y al tiempo del comer le asistian algunos Indios, truanes que le deslian gracias, y otros que le cantayan, y bailavan,*  
per

a Chap. 91.]

por que el Motezuma era mui aficionado a placer ; y aquellos mandaua dar de los relieves, y jarros de Cacao. That is,

They brought in the several sorts of fruits, which they had in their Country, but they eat but a very little of them, and that but leasurely, and at intervals : they brought some in cups of fine gold, with a certain drink made of the *Cacao* it self, which they said was effectual to provoke lustful desires towards women ( as they told us in their language ) in which we admired nothing more, then that they brought in above fifty great jars made of good *Cacao*, with its froth, and that they drank it, the women serving them with a great deal of respect : and when he [ *Motezuma* ] did eat, several *Indians* stood by him, which gave thanks, and others, which sung to him, and danced before him, *Motezuma* being much given to pleasure : and he commanded the reliques of his feast to be given away, and the jars of *Cacao*.

And a little after he saies, *Luego comien los de su guarda, y otros muchos sus serviciales de casa, y me parese, que sacavan sobre mil platos de aquellos manjares, que dicho tengo : pues jarros de Cacao, con su espuma, como entre Mexicanos, se base mas de dos mil, y fruta infinita.* That is,

Afterwards his Guards, and other servants did eat, and, I think, they had above a thousand dishes of the aforesaid delicacies.

After which they had brought to them jars of *Cacao*, with its froth, according to the Mexican fashion, to the number of two thousand at least, besides an infinity of fruit.

Here is no mention of any thing, but jars of *Cacao* together with their froth: which could not have frothed so, had they not been preparations of *Cacao* nuts made into a paste, and reserved in cakes for the sudden use of a thousand cups; they were dissolved in water, and frothed by agitation of the moinet: for without such agitation the *Cacao* would not froth, nor would it continue in a froth, unless that some of the meal of Indian wheat, or Maiz made into *Atolle*, were mixed with it. And this I find to have been the first composition of *Chocolata*.<sup>b</sup> In acute diseases to allay heat and fervour, and in hot distempers of the liver, they gave the *Cacao* nut, punned, and dissolved in water, without any other mixture. In case of the bloody flux they mixed the said nuts with a gumm called *Olli*, and so cured them miraculously. Nor did they acquiesce in simple preparations of the said *Cacao* nut; they took of *Cacao* nuts, and a grain called *Pocholt*, of each an equal quantity, & grinded them together in equal proportions; and, when they used it, they took that paste, and dissolved in an earthen vessel, and agitated it with a *molenillo*, till the more oily parts and fatty did swim on top: then did they take of the said unctuous part, and put

<sup>b</sup> Hernandez  
l. 3. c. 46.

<sup>c</sup> I know not what this *Pocholt* should be, if it be not Maiz (there being as great variety of names, as Kingdomes in the Indies) or Paniso: both which I find to have been put into the *Chocolata* of old.



to the rest some meal of *Indian* wheat, and having reduced it to a potable liquor, they did remix the *oyl*, or *fat*, taken off before, and so drunk it *luke-warm*. And this is the *Chocolatl*, of which *Hernandez* speaks, and calls peculiarly by that name in his Chapter concerning *Cacaua Quahuil*, or the *Cacao*-tree. And that this was the primitive *Chocolata* seems evident from what <sup>d</sup> *Benzonus* <sup>d</sup> *Benzonus* l. 2. says, who lived there amongst the first Planters. He travailed through the Kingdom of *Nicaragua*, and observed, that they made a certain cooling-drink of the *Cacao* nuts: they grinded the nuts into a paste, and, when they used it, they dissolved it (being powder'd) and milled it, tempering it by little and little with water in an *Indian* cup: and sometimes they added a little *pepper*; and this was their ordinary drink; which they did drink themselves, and gave to wearied travellers, as well as to the sick. This they offered to *Benzonus*, and when he with an abhorrency refused such a drench, they admired, and laughed at him. But certainly it was not improved to any deliciousness of taste, since he saith it was *bitterish*, and that it was more fit to be *hogs-wash*, then drink for rational men. The same may be collected from <sup>e</sup> *Acosta*, who saith, that <sup>e</sup> *Histor. Ind.* the chiefest use the *Indians* make of *Cacao* is in l. 4, c. 22. a drink, which they call *Chocholate*, whereof they make great account in that countrey, foolishly, and without reason: for it is loathsome

Mr. Gage, speaking of the ordinary Indians of Guatemala, saith (ch. 19.) that they drink of their poor simple

*Chocolatte*, without Sugar, or any compounds, or of *Atolle*, untill their bellies be ready to burst. And in the same Chapter, a little before, he says, they call their neighbours to *Chocolatte*, and finish an house without any charges, more then of help them, which they minister in great cups of above a pint, not putting in any costly materials, as do the Spaniards, but only a little *Anise-seed*, and *Chile*, or *Indian pepper*: or else they half fill the cup with *Atolle*, and pour thereon as much *Chocolatte*, as will fill the cup, and colour it.

This is that original *Chocolata*, to the use whereof the *Indians* were brought, not by any delicacy of the tast, but evident testimonies and sense of its great utility. *Hujus potione longa experientia satiati, utilibus admoniti*; so saith Dr. *Juanes de Barrios*, who lived there immediately after the conquest; as also did *Hernandez*, and *Benzonus*, and *Acosta*.

It is then clear, that the *Indian* ordinary *Chocolata* was made of the *Cacao* nut, and meal of *Indian* wheat, and water, and *Pocbolt*, and now and then some Pepper called *Chille*, which was put in, more, or less, according to the necessity of the Patient's stomach, or other circumstances: So that they made divers sorts of it, some hot, some cold, some temperate, and put therein much of that *Chilli*, or *Chille*. So saith *Acosta* in the place

place above-mentioned. And I observe, that *Hernandez*, though in the making up of *Chocolatl*, where he speaks of the composition of it, (which is to be supposed the ordinary one, because absolutely and indefinitely mentioned there) he add no more Ingredients, then I have already mentioned, yet in other places he tells us that for weak, <sup>f *Hernan.* l. 2.</sup> phlegmaticque, and windy stomachs, they added *Xochinacaztli*, or your *g Orichelas*: <sup>g *Gage* calls them *Orejuelas*</sup> so they added *Tlilxochitl*, or the <sup>h *Vaynillas*</sup> <sup>h *Id.* l. 2. c. 17.</sup> for the like ends, and to strengthen the brain, and womb. To give it an adstringency, and to strengthen a stomach debilitated, and prone to a flux, or *diarrhea*, they added *Achiotl*, or *Achiote*. So, in case of cold <sup>i *Id.* l. 3. c. 41.</sup> Stomachs, and Phlegmaticque Obstructions, they added <sup>k *Id.* l. 5. c. 13.</sup> *Mecaxochitl*; which *Anton. de Ledesma* and *Gage* call *Mecasuchill*: and *Paulus Zacchias*, *Mecacuce*. And, in case of Coughs, they added <sup>l *Id.* l. 5. c. 41.</sup> *Tepeyantli*. But, besides these drinks, confessedly owned by *Hernandez* under the name of *Chocolata*, there is another, which however it be not reckoned as a sort of *Chocolatl*, but distinct from it, yet was it made of *Cacao* nuts, and seems to have been a leading drink to the *Chocolata* now in use: and it is called by *Hernandez* the <sup>m *Id.* l. 3. c. 46.</sup> compounded *Atatexi*. The simple po-  
tion of *Atatexli* is made of one hundred *Cacao* nuts, crude, or prepared, and beaten well, and so mixed with as much prepared *Maiz*, as can be taken up betwixt both hands



hands joyned together. *Compounded Atatexli* was made by the addition of *Mecaxochitl*, or *Mecasuchill*, *Xochinacatzli*, or *Orichelas*, and *Tlixcochitl*, or *Vaynillas*. These were powdered, and mixed with the rest afore-mentioned Ingredients of simple *Atatexli*, and being well milled, they powred them out of one vessel into another, lifting it up on high, that so it might richly froth, and the more fat and oily parts swim on the top, and render it more pleasant. This Potion was not used for sustenance alone, or as a drink invented by an enforcing necessity, but, out of a luxurious designe, to provoke lust: whereas the simple *Atatexli* did refrigerate.

I must beg pardon of my Reader for representing so imperfectly the aforesaid *Indian* drinks; for the *Mexican Herbal* is so defective, as it is published in *Latin* (for the *Spanish* is incomparably better, if I may judge thereof by some citations, I have seen) that I have the satisfaction by omitting nothing that is material in that book; that whosoever, with *no greater helps* then I have, should engage in the same affair, would not discharge the employment better then I have done.

When I consider the aforesaid *compounded Atatexli*, and compare it with the present compositions of *Chocolata* at this day recorded, I cannot think, but what we use at present is the descendent of that *Atatexli*,  
and

and not of *Chocolatl*: for the Ingredients are *Cacao*-nuts, *Mecaxochitl*, *Orichelas*, and *Vaynillas*, are the same; the manner of using it the same: and, at this day, the *Indians* and *Black-moors* <sup>n</sup> do mix *Maiz* with <sup>n</sup> *Gage c. 16* their *Cacao*-nuts in the grinding, putting withall *Achiote*, *Anise-seeds*, and a few *Chiles*, or red Pepper.

And, now I come to speak of the present ways of making *Chocolata*, I shall represent those ways, which are authenticated by Physicians; and among these that of *Antonio Colmenero de Ledesma* first occurs.

To every hundred nuts of *Cacao* he puts <sup>o</sup> *Gage c. 16* two cods of *Chile* called long red Pepper, <sup>Piso in Mant.</sup> one handful of *Anise-seeds*, and *Orichelas*, or *Prejaelas*, and two of the flowers called *Mecacucbill*, one *Vaynilla*, or instead thereof (if the party were costive) six *Alexandrian* *Roses* beaten to powder, two drams of *Cinnamom*, twelve *Almonds*, and as many *Casel-nuts*, half a pound of *Sugar*, and as much *Achiote* as would colour it. <sup>Ar. c. 17.</sup>

*Paulus Zacchius* in his *Italian Discourse* about *Hypochondriacal Melancholy* doth propose this way.

Take twelve pound of *Cacao* nuts finely <sup>p</sup> *Piso in Mant.* powdered, of *Cinnamom* finely powdered <sup>Aromat. c. 17</sup> one pound, half a pound of *Anise-seeds*, six *Vaynillas* finely powdered, four handfuls of the flowers of *Mecacuce*, or *Mecaxochitl*, of *Maiz* three pound, one pound of

of *Aionzoli* ( or half a pound of sweet Almonds ) bruised and well beaten, of *Achiote* half an ounce, of Sugar four pound, or as you please.

Instead of *Mecaxochitl*, and the *Vaynillas*, he allows to substitute one Nutmeg, and twelve Cloves. Out of these he bids us frame a mass.

Besides these Prescripts, other Receipts put in other Ingredients with a great variety, and difference one from the other; some put in a proportion of *black Pepper*; some of *long Pepper*; some retain that of *Chilli*, or long red Pepper; *Cinnamom*, *Cloves*, *Almonds*, *Hasel-nuts*, *Orejuela*, *Vaynillas*, *Musk*, *Amber-grease*, *Orange-flower-water*, are things usually put in, or omitted; as also *Nutmeg*, *Limon* and *Citron-pill*, *Cardamoms*, *Fennel-seeds*, *Chymical oyls* of *Nutmeg* and *Cinnamom*, and the most delicate Spice called *Jamaica-pepper*; nay and *Achiote* too is sometimes left out, or changed for *Santals*, according to the devise of the *Chocolata-maker*, or particular exigency of the Patient's disease.

In the common *Chocolata* sold so cheap there is not any thing, but eight ounces of the *Nuts* prepared, and powdered, seven ounces of Sugar, and one ounce of Spice; viz. half an ounce of *Cinnamom*, two drams of *Jamaica-pepper*, or other *Pep-nuts*, nor to scarce them: for they sell it in the *Chocolata-seller* for two shillings, or half a crown, each pound; the *Dutch* for eighteen, nay twelve pence: nor do they know the difference betwixt one sort of nut, and another.

per :



per, and as much of *Cloves*, *Nutmeg*, and *Limon-pill*, some colour it with *Achiote*; some decline to do so, some put into each pound, to make it extraordinary, six grains of *red Pepper*, or *Chiles*. The *Jews* at *Amsterdam* put in *Bean-flower* usually, instead of *Maiz*.

In the making of it up these Directions are given by Mr. *Gage*.

The *Cacao* and other Ingredients must be beaten in a mortar of stone, or ( as the *Indians* use ) ground upon a broad stone, which they call *Metal*, and is only made for that use : but first the Ingredients are all dryed, except the *Achiote*, with care, that they may be beaten to powder, keeping them still in stirring, that they be not burnt, or become black : for, if they be over-dryed, they will be bitter, and lose their virtue. The *Cinnamon*, and the long red *Pepper* are to be first beaten, with the *Anise-seed*, and then the *Cacao*, which must be beaten by little and little, till it be all powdered: and in the beating it must be turned round, that it may mix the better. Every one of these Ingredients must be beaten by it self, and then all be put into the vessel where the *Cacao* is, which you must stir together with a spoon, and then take out that paste, and put it into a Mortar, under which there must be a little fire, after the Confection is made : but if more fire be put under it, then will warm it, then

' then the unctuous part will dry away. The  
 ' *Achiote* must also be put in in the beating,  
 ' that it may the better take the colour. All  
 ' the Ingredients must be searced, except the  
 ' *Cacao* : and, if from the *Cacao* the dry shell  
 ' be taken, it will be the better, where it is  
 ' well-beaten, and incorporated ( which  
 ' will be known by the shortness of it ) then  
 ' with a spoon ( so in the *Indies* it is used )  
 ' is taken up some of the paste, which will  
 ' be almost liquid, and made into Tablets,  
 ' or else without a spoon put into Boxes,  
 ' and when it is cold it will be hard. Those,  
 ' that make it into Tablets, put a spoonfull  
 ' of the paste upon a piece of paper, ( the  
 ' *Indians* put it on the leaf of the plant in  
 ' the tree ) where being put into the shade,  
 ' ( for in the Sun it melts, and dissolves ) it  
 ' grows hard : and then bowing the leaf,  
 ' or paper, the Tablet falls of, by reason of  
 ' the fatness of the paste; but, if it be put into  
 ' any thing of earth, or wood, it sticks fast,  
 ' and comes not off without scraping, or  
 ' breaking.

I never saw any *Chocolata* made up in a  
 mortar, my self; nor do I understand how  
 the mixture can be accurately made therein.  
 Some beat the Spices severally in a mortar,  
 and searce them curiously : but, as the ve-  
 hement agitation of the pestle doth dissi-  
 pate the more subtle parts, ( and it is long  
 in doing ) so it doth not equally break them  
 into small particles, notwithstanding their  
 their

their passing the searce : I conceive it a much better way, to beat the greater Spice grossly, and afterwards to mix the *Vaynil-las*, cut into pieces, and dryed, and so to grinde them on a stone-table ( such as are made on purpose to make up *Chocolata* ) and so with less trouble, and less dissipation of Spirits, and subtle parts, ( a gentle fire being under ) will they grinde to an impalpable Powder, ( each acting upon other in the grinding, as well as being pressed by the iron rowler ) and, besides that, mix most accurately. The Spicery being thus prepared, the *Cacao* nuts are dryed either on a digesting furnace, or in a kettle over the fire, stirring and turning them carefully, that the nuts may so dry as to shell, but not to burn : for then the *Chocolata* will be bitter. Being pill'd, or shell'd, the nuts, being cold, will beat to a powder, which you may searce, ( as you do the Spice ) which is the best way, and practised by the best *Chocolata*-makers in *Spain*, and by my self always. The *bulls* also, many of them, are beat by themselves, & mix'd afterwards with the nut, and Spice, to compound *Chocolata* ordinarily in *Spain*, and by many in *England*, to make the common *Chocolata*. And Mr. Gage, and Pifo, whilst they say it is better to leave out the *bulls*, leave us to conjecture, that many put them in all. Having thus prepared the Spicery, and Nuts, they are to be mix'd, and grinded on a table, with a gentle fire under



it. In the working, if the fire be too hot the Nuts will run into too great an oyliness, or dissolution of the fatty parts, and the *Chocolata* will not keep any time. If it be too cold, it will not *work*, but stick to the rowler. From whence we may judge of the

controversie, whether an iron, or stone-table be best: for on a *thin iron-table* it is impossible to preserve an *equal heat*, and consequently some parts of the *Cacao* nut will be reduced to too great a dissolution and unctuousness, and others to too little: and this inequality must needs occasion an unequal mixture of parts, and consequently a propensity to corrupt: besides that they are enforced to make it up too soon (it the former: growing too *oylie*) before the parts are equally mix'd. But under a thick stone-table each degree of encreasing heat is soon observed, and remedied. I must also add, that an iron-table works the *Chocolata* blacker, then doth a stone.

It doth also work blacker on an iron-table: but who prefers a stone-rowler, before an iron one, must never have undergone the trouble of working with the former: which is much greater then with an iron one; as far as I could see: nor was the *Chocolata* better.

### CHAP. III.

*An enquiry into the nature of the particular Ingredients, whereof Chocolata is made.*

**T**He *Cacao* nut, as it is the principal and constant Ingredient in the composition of *Chocolata*, so it merits an exact enquiry into its nature: for it is by it, that we are mainly

mainly to give an estimate of the nature and effects of the whole Composition.

The *Cacao* nut ( if I may so call it, and not rather the seed of a greater, but disregarded fruit ) is a Nut bigger ( or as big ) as a great Almond, which grows upon the *Cacao*-tree, and ripens in a great husk, wherein sometimes are found more, sometimes less *Cacaos*; sometimes twenty, sometimes thirty, nay forty, and above. The tree is call'd by the *Indians* *Cacana Quahuatl*, it grows ( wilde in the moist grounds of *Guatemala*, and *Nicaragua*; and by plantation elsewhere ) to an indifferent height, equal to our largest Plum-trees in bigness; it abounds in foliage, and the leaves are sharp-pointed, compar'd by some to the leaves of a Chesnuts, and by others to the leaves of an <sup>a</sup> Orange. It bears a great Flower, <sup>a</sup> By *Antonius Herrera*, of a Saffron-colour; which fading way, <sup>b</sup> *Piso*, and *Hernandez*. there succeeds a large fruit call'd *Cacahuatl*: when it is ripe, it is as big <sup>c</sup> as a Musk-melon, as thick, and as weighty; if <sup>c</sup> *Benzoni* compares we may believe *Piso*, and *Hernandez*: them to Cucumbers for though others think the comparison too large, since ( in *Jamaica* ) they are not observ'd to exceed the bigness of a large Pear. *fructus Amygdalorum speciem representans, siliquis quibusdam veluti cucurbitis includitur, crassitudine & latitudine cucumeris.* But there are several sorts of *Cacao*-trees, and their Nuts differ more or less in faculty ) so that difference of trees and soils may occasion the discrepancy of Authors. Within this putaminous husk, or large fruit, ly the *Cacahuatl*, or ( as the

d *Ludovicus Lopez* t. 2. In-  
stru&. cons&. c.  
112. calls it  
*Checa*. And  
*Piso* in *Latine*  
*Cacacius*. *Ben-*  
*zonius* saith, it  
is usually  
call'd by the  
*Indians Ca-*  
*cauate*.

e This is the  
comparisen  
used by *Piso*,  
but the re-  
semblance is  
not very  
great, especi-  
ally in some  
sorts of Nuts.

d *Spaniards* corruptly call them) the *Cacao*  
nuts, being about the bigness of Almonds,  
each of them enveloped in a slimy sub-  
stance, and film, of a Phlegmatique com-  
plexion, but of a most relishing tast: which  
the women love to suck of from the *Cacao*,  
finding it cool, and in the mouth dissolv-  
ing into water. Under which is another  
shell, which, when bak'd in the Sun, some-  
what resembles the colour and substance of  
a Chestnut-hull. Under that hull is lodged  
that nut, which is the most pretious com-  
modity in the *Indies*, as *Acosta*, and others  
tell us, and which makes up chiefly our  
*Chocolata*. It is of a colour like to the out-  
side of a Chestnut, and divided into several  
scissures, and pieces, as is a *cow's-kidney*,  
but yet joyned together, and in those small  
divisions (after drying) there seems to re-  
main some little reliques of a Phlegmatique  
moisture, which often degenerates into an  
hoariness, and at last ends in the final  
corruption of the Nut. It is of such a sub-  
stance, that being dried on a digesting for-  
nace, or pan, it will beat to a fine powder:  
being laid on a stone, or table, the least  
warmth makes the said powder dissolve into  
an oyliness, or fattyneis instantly; and it will  
alone work into a paste, without any inter-  
mixture, and keep a year. Which paste well  
made up alone (or with *Pocholt*) was, I pre-  
sume, all the *Chocolata*, that *Moteczuma*, and  
the ancient *Indians* had, then dissolving it in  
*Atole*.



*Atolle.* It will beat into a Powder, and so may be remix'd with new Ingredients of Spicery, and sugar, to make the more delicious *Chocolata*. I took a quantity of it (being exquisitely ground) and dissolved it in hot water, and having let it stand a while by the fire to dissolve, I milled it, (without the mixture of any thing, but pure *Cacao* paste, and water) it frothed moderately, but the froth was but of little continuance, and, being suffered to cool, it gathered like fat (both in colour, and substance) on the top of the most fat broths, or pottage, to a great thickness: but when it came to be cold, however it had before a resemblance rather of fat, than oyl, it gathered into a resemblance of cream; and indeed it had just such a consistence, but the colour was yellowish. To the bottom there did settle a great quantity, which I took, and tasted of: and I found it to taste just as *Almond butter* exactly, as to its *unctuousness*, but it had the bitterness, which is proper to the *Cacao* nut. The water it self beneath the cream was reddish, and after I had purely taken of the cream, it had not only a fatty taste, but taking some out, and bathing my hands in it, I found it extreme fatty. I took that Settling, and heated it in fresh water till it began to boil, then I milled it again, and let it stand to cool: it was at first extraordinary fatty; then, being cold, it yielded its cream, and a red shining *Cacao-*

*butter* ( as I may call it by an allusion to *Almond-butter* ) and a coloured fatty water , as before ; only with this difference, that the *Cacao butter* seemed a little less unctuous, and not so perfectly to dissolve, and glide off the tongue, as before. Which put me upon another Experiment of decocting, and milling it, till I might extract all the fat out of it, and discover the nature of this setling ; if it might be so *terrestrial*, and *obstructive*, as some imagine. I heated the aforesaid setling in fresh water, and milled it well ; and instead of cream ( though the water, as it cooled, shewed signes of a great fattinesse ) there did gather on the top a thin covering or *yeux* ( if I may so call it ) of fat, such as will rise on *mutton pottage* not too fat. The water proved unctuous to my hand, as before, but the setling had no longer the fineness, and melting tast of *Almond butter*, but seem'd as if it were not finely powder'd, and besides its bitterishnesse, to have an evident piercing adstringency. From whence I concluded, that it could not be obstructive, but opening, and that when the fatty alimentous parts were distributed for nourishment, the others ( as before they seemed to corroborate the stomach, and promote digestion ; which things moderately bitter and adstringent do : so now they ) open the obstructions, promote concoction in the several guts, and go away in stool : which is the excellency of bread corn, that the bran doth

both promote the appetite, and digestion, and keeps the body open, and is more healthy then Manchet, and it is mix'd by many with successe in *Diet-drinks* to this end.

And it is further observable, that in this Experiment, whereas the Nut it self, and the paste of *Cacao*, and the Cream, and the two first Setlings (yea, and the Fatty water) did by their burning give more or lesse visible testimonies of their unctuous nature in their flames, the last greety and incoherent Setling would not burn at all in flames. Besides, during the reiteration of these Experiments, (which was a fortnight) there never appeared any augmentation of the cream by standing beyond a few hours; nor no alteration in it by standing *sundry dayes*: the cream, the water, the Setling were still the same, as to consistence, colour, and taste: it never, as to any part of it, sowed in a fortnight's keeping, nor gave any sign of corruption, though, during that time, I boiled, and milled the same decoction several times, and upon any fire to heat it I observed that Setling to arise, and incorporate with the rest, the cream dissolving; as Urine, when turned at the fire: and when it cooled, it did resettle before; as the said Urines do in like case. At the same time, as I tryed *sundry Experiments* with paste of the one lump, I observed, that, having boiled the water,



and dissolved the *Cacao paffe* in it, and milled it but a little: though upon cooling it seemed very fat, yet did it yield but little cream. Another part, that was well milled, and yielded as much cream, as covered the pipkin all over to a moderate thicknesse, being skimmed, and milled, and cool'd, and creamed again, I took it, and heated it till it began to boil, and then poured it out of the pipkin instantly, and it came out so clearly, and without any reliques of water in the pipkin, as water doth usually glide off oyled cloth, or other vessels, when cold water is powred on cold grease. And this happened upon three tryals, the water being thoroughly unctuous by being twice or thrice heated, and milled (for else it succeeds not:) and to make it more conspicuous, in several parts off the pipkin I could observe some little remainders of the water slide off in round globes, or corpuscles, as it will do off oyled cloth, or greased vessels.

From whence I thought I might collect a reason, why the fattynesse of the Nut doth not annoy the stomach, being taken in drink, as other fat, or oyl will: for it exactly commixs with the liquor, and swims not on the top: (in these last Experiments it was never milled; but, having been milled some dayes before, and cooled in the pipkin, it was again heated, and stirred with a spoon a little, and powred out) and if, as it cools, part

part of it seem to ascend, yet doth not that  
 ll condense into cream: but the water  
 nder is fatty; and as it is hot, and boils,  
 is still so (as appears by this Exper-  
 iment:) which happens not so in other fat  
 roths. Thus, the *unctuous parts* not floating (as  
 n fat, or butter, dissolved in posset drink to  
 rovoke, or help vomits) on the top, and  
 he *bitterish* and *adstringent parts* by a little  
 eat commixing with the other, it must be a  
 ery great repletion can make *Cacao*  
 iste offensive to the stomach, and its of-  
 fice.

I took also *Cacao paste*, and dissolved, and  
 milled it well in cold water; and it did  
 roth, and upon standing yield a cream in as  
 great a proportion, as that did, which had  
 een dissolved in hot water, and well milled:  
 he cream was *yellowish*, and inflammable;  
 he *setling* was just as to colour, and *taste* like  
 o the other: saving that, drinking of it  
 efore it settled, I found it to be nauseous to  
 he stomach; so as I, who hitherto never di-  
 asted any thing I had a mind to take, could  
 or much relish the drinking of it: not  
 hat it was vehemently cold to the stomach,  
 ut that the fattiness of it made the water  
 npleasant being cold: and it had also a  
 awiness in it, as if the fat required boil-  
 ing, or further Cookery; which yet I felt  
 ot upon eating either the nuts, or paste of  
*cacao*. Or else it was because that the  
 armth of the water causeth a more *absolute*  
*commixture*

commixture of the parts, which may prevent, as well as of those, which may cause nauseousness. Or it was because that many things may be taken hot without offence, or distaste, which cannot be so, when cold: the heat of the *vehicle* either correcting the potion, or corroborating the stomach.

I took also some simple *Cacao* paste, and put it into cold water, and set it on a gentle fire, stirring it with a spoon till it was dissolved: I suffered it to boil gently, and kept it all day in such a posture, that it did either boil, or continued boiling hot, but rather the latter. After it had stood seven or eight hours ( during which time I observed the Decoction to grow extraordinary oily, and to fill the spoon with a water so thick, that I thought it was transformed all into fat, and oil ) it appeared all full of globous corpuscles, as if it had been oil broken into parcels: but these Corpuscles did never embody into greater quantities, nor commix upon agitation; yet by long digestion I observed they grew to a larger size, yet would not commix: there being besides them a distinct fattiness to be seen. And in the end, I perceived a new body to discover it self in great quantities; it was not globous, but flattish; and for colour, and taste, and nature participated more of *nut-ton fat*, then any thing else. It was of colour *yellowish*, inclining to white: and had little taste of the *Cacao's* bitterness, or *astringency*.



*Astringency.* These fatty Particles I could not get to embody into one, or more bigger bodies: though I could agitate them with a Spoon ( for I never milled them ) into effe; yet did I perceive, that some of them were bigger then others, and at last some of them did enlarge themselves into a size as broad as a Groat, and of an indifferent depth, or thickness: yet could I not stir these into one or more bigger masses. Whereupon I set it to cool: and it was long before these bodies of oil, & fat, did harden, and disappear out of their former shape: so that I thought I had resolved it into Oil, since no Cream was to be seen. But being called away by business ( which permitted me not the leisure to observe the minute changes in this reiterated Experiment ) at my return I found several *whitish* or *pale-yellowish* bodies like to Fat swimming on the top, there being no Cream, nor other body to overcast the top, and hinder their free floating: some were bigger, thicker, and broader, and longer then others, and of no determinate Figure. They were very solid, and melted on the tongue totally, as Fat, or Butter would, or Clarified Deer's-suet, to which they were equal in hardness: they had ( as I and others judged ) a farewell or resist of the *Cacao* at last upon the tongue. So that I observed, that no dissolution could totally separate its bitterness, and little piercing *astringency*, which is peculiar to the

the Nut : and consequently it could never easily become offensive , or obstructing. The *Water* or *Decoction* was fatty, and had a deep red tincture : and the Setling as it was deeply red, so it had little of Oiliness, or resemblance of Almond butter ; but it was attended with a roughness, or sensible inequality of parts, the unctuousness being almost as much extracted from this Setling, as from that, which had been Decocted, and Milled in several Waters ; of which I already spoke. I could see no tokens of what carried, whilst it was hot, the appearance of Oil. Having shewed it for several dayes to divers persons, I heated it again, and instantly the said hard Fat dissolved, the Setling did remix with the rest of the Liquor : and I had a Decoction of a most deep red, and swimming with large Fatty and Oily Particles : I caused it to be well milled, and setting it to cool, the said large innatant bodies, resembling a Solution of Fat in Water, and parcels of Oil, were dissipated, and broken, or so incorporated with other Corpuscles, that I could get very few, and those very very small pieces of solid Fat : ( the same happened in compound *Chocolata* ) though I had before had lumps, that might weigh ten or twelve grains. But there did gather on the top a skin, or cuticle ( very thin ) though the body of the water and top did shine with a visible Fattishness ; and poured out of the pipkin with such an unctuousness, or

roylineſſe, being ſcalding hot, that nothing did, or would ſtick, or otherwiſe, then *ſlide* off, as from *oiled cloth*, which it doth not, when powred out cold. Of *fat*, it was not *hard*, but having an *affinity* with the ſual cream already mentioned in other try-als, but *improportionate* to the *fat* diſſolved; and the *ſetting* ſeemed to me more unctuous, then before, and like *Almond butter*.

I have not time to multiply reflections hereon, but whoſoever ſhall ſet himſelf to obſerve the diſſolution of *Cacao paſte*, or *Chocolata cakes*, according as they are *milled* in water, or not *milled*; and according as they *boil*, and not *boil* therein; and according as they gradually diſſolve on a *quick* or *leisurely* fire, will finde a great *diverſity* of parts, occaſioned by the different *texture* of them: and ſhall finde both colour and taſte to vary ſeveral times eſpecially in the Compound *Chocolata* ) to his amazement. I ſhall conclude with one *trial* more; The powder of *Cacao paſte* taſtes very *fatty*, yet (according to *variety* of *nuts* ) it diſſolves with the leaſt heat on a *ſtone* like *butter*: but a great heat dries it, and leaves a *red, bitteriſh*, and aſtringent powder behind. I took alſo of the ſaid *paſte*, and heated it on a fire ſhovel; and if at firſt it melted with a *gentle* heat, it did evaporate away its *oily* parts by a more *violent* one: and, ſmelling to the ſmoke ariſing from it, I had my ſmell affected with ſuch a *nidor*, as iſſues from *fat*, when



when broiled on the coals, but milder.

These circumstances of its *fattiness*, and *oiliness*, and of its *nidorous exhalations* being burned, do very much recommend the Nut for a very nutritive thing. Its dissolving by the least fire, or warmth, argues its *facile digestibleness*. Its easy concretion evidenceth its promptitude to be assimilated into nourishment of the parts. And its *nidorous vapour*, being burnt, proves, that it carries with it (if any can doubt this, that sees the Oil, or Fat, swimming in the pure Cacao decoction) at least a potential fat, and is a greater elogy of its symbolizing with our bodies, then it is for Bread, that by Chymical digestion it should in time be converted into blood, as some tell us.



f Hernandez,  
Herb. Mexic.  
lib. 3. c. 46.

g Dr. Juanes de  
Barrios de  
Chocolata.

But to improve this Argument from reason a little, it is the general vogue of the Indians, and Indian writers, which is no lesse, then the testimony of uncontroverted Experience, that this Cacao nut is very nourishing: that it is *multi nutrimenti*, is the assertion of f Hernandez: that it doth fatten (being made into *Chocolatl* by the sole mixture of *Pocholt* grains) by frequent using it, is likewise avowed by him. *Chocolatl paratum ex granis Pocholt, & Cacauatl, equâ mensurâ, quod magnopere traditur corpora impinguare, si frequentius eâ uti contingat.* And Dr. Juanes de Barrios g tells us, that, when they used in Guatemala the plain and simple *Chocolata*, they found it very nourishing. *Es comoda*  
pues

pues ella sola suple el almuerzo, y algunas otras comidas, por que con ella no es menester, pan, ni carne, ni bebida, y en un momento se hace y saca, lo que no ai en las otras.

In fine *Jo. de Laer*,<sup>b</sup> tells us, that it is very h *Jo. de Laer*  
nourishing (*præclare nutrit*) and that the *Hist. Ind. Oc-*  
*Indians* by the help of *Cacao* nuts alone do *cid. l. 7. c. 2;*  
subsist all day, notwithstanding their great labour, and heat. Which is a truth well known to our Seamen, and Land soldiers, in, and about *Jamaica*, that by the help of the *Cacao* nut made into paste with Sugar, and dissolved in water, neither having, nor wanting other food, they usually sustain themselves, sometimes for a long season; and I have been assured, that the *Indian* women do so feed on it, (eating it often) that they scarce eat any solid meat twice in a week; yet feel no decay of heat, or strength. All which is purely to be ascribed to the nourishing nature of the *Cacao* nut, and not to the other Ingredients; since few of them are found endowed with any such quality, nor is there intermixture with the *Cacao* nut of any long date, the latter of which hath been already evidenced in the beginning of my discourse: and I shall demonstrate the former, before I conclude.

But however that the *Cacao* nut, being grinded into a paste, and dissolved in hot water, be so nourishing, yet have the *Indians* and *Spaniards* an ill opinion of the Nut, to eat it whole, and not in the usual manner of

1 Gage Survey  
of the West-  
Indies c. 16.

of drink. Which, as it is told me by that ingenious Gentleman, Major *Fairfax* (who lived long in *Jamaica*, and is newly returned) so it is confirmed by the authority of Mr. *Gage*.<sup>i</sup> 'The *Cacao*, if it be not stirred, 'grinded, and compounded to make the '*Chocolatta* ; but be eaten, as it is in the 'fruit, (as many *Criolian* and *Indian* wo- 'men eat it ) it doth notably obstruct, and 'cause stoppings, and make them look of a 'broken, pale, and earthy colour, as do 'those, that eat earthen ware, as pots, or 'pieces of *lime walls* ; which is much used 'amongst the *Spanish* women, thinking, that 'pale and earthy colour, though with ob- 'structions, and stoppings, well becomes 'them. Which Observation, if it be true, makes no more to the prejudice of the *Cacao* nut, then it prejudiceth Wheat, Oat-meal, or the like, that being eaten unmasticated, or raw, they do create, or encrease the Green-sicknesse in maids. I say, if it be true : for here in *England* the honourable *Robert Boyle* can bear me witnesse, that several honourable Relations of his have eaten them for several years, and continue to do so ; in the beauty of whose faces the world, as much as it is interested therein, can observe no diminution : yea, they professe it as a real and experienced truth, that, if at any time their heads ake, to eat twelve of those nuts is a present remedy. Another Lady protested to me, that by the eating of those



those Nuts, she feels *Hypochondriacal vapours* (with which she is much troubled) to be instantly *allayed*, or appeased. So far are they from participating of the usual *Malignancy* of Nuts, to beget *shortness of breath*, *Obstructions*, and *Head-aches*. To the former Experiences I must add, that they are observed to be more *laxative*, then *binding*; and that neither Mr. Boyle, nor my self (who did eat two pound once, and great quantities since on purpose) ever felt any *heavyness*, or *annoyance in the stomach*, *Head*, or elsewhere. Nor have I (as neither do the others) been curious to choose

*particular times* to eat them in: but at *all hours*, and *seasons*, *Morning*, and *Evening*, *before*, and *after meals*: *all day*, as opportunity, or other circumstances invited us thereto. It may be then, that the *obstructions*, and *discoloured complexion* of the Women in the *Indies* either is

*abulous*; or to be attributed to their eating the *Cacao Nuts*, whilst yet they are not sufficiently cured from their *excrementitious* *coysture*, and humidity: or that they eat another sort of *Cacao Nuts*, then should be

D

used

Here I desire to observe, that, though I have my self *many times* eaten *great quantities* of the *Cacao nuts* *unreduced to paste* (as also of the *simple* and *compound paste*) yet did I never find my *Stomach* to be *fill'd* by them (as if they had *dissolved instantly* therein) but rather *satiated*, though not *cloy'd*; which happens not in other *solid food* taken so: nor could I ever perceive they did that way *much nourish* me; though I did eat at one time beyond any proportion, that I *drank* at another; and yet was fed and *sensibly refreshed* by the *latter course*.

used in *Chocolata* : ( for it is a great caution in the making *Chocolata*, not only, that the Nuts be well cured, and dried ; the older being accounted the best, if not corrupted, and decayed ; and that they come from *Caracas*, and *Soconusco*, not *Guaiachil*, or the like ; but that they be of the sort call'd

*Clalcacahuatl*, especially : whereas they they make Confects of *Quaubpatlatbli*, ( or *Patlaxt*, which <sup>m</sup> is not so usefull as the ordinary, yet is used by the meaner sort. ) Or, if it must be understood of the right *Cacao* ( which they often eat <sup>n</sup> roasted, and made into Confects, and their Women fall into *Hysterical* and *Hypochondriacal* Distempers, very difficult to cure ; which is avowed by *Piso*, as an usual accident there, as well as by Mr. Gage ) I can only say, that it hath not yet happened so here : and that however, we ought to remember that old *Arabian Maxim* in *Physick*, *Qui non bene masticat, odit animam suam* ; ' He, that doth ' not chew his food well, is an enemy to his ' own life. Of so great Consequence is either that *salival ferment* in the mouth, which inchoates digestion, being impressed into the thing chewed ; or the due *communion*, and *subtiliation* of food : it being well known, that the eating of any meat in *great morsels*, and without *chewing*, occasioneth the inconveniencies attributed to the eating of the *Nuts* not reduced into a *paste* by *Grinding*. For it is observable, that the

k *Hernandez* l.  
3. c. 46. *Gul.*  
*Piso* in *Mant.*  
*Arom.* cap. 18.  
l *Hernandez*  
*ibid.*  
m *Gage Surv.*  
c. 16.  
n *Piso* in  
*Mant. Ar.* c. 18.  
& *Anton. de*  
*Herrera* cap.  
10. *Hist. Ind.*  
*Occid.*

he Paste of the *nut* will melt in the mouth perfectly, if it be *well made*: but the *nut* will not (that I could observe) though well hewed. And therefore it may seem a just caution, to *weak stomachs* especially, that their *Chocolata* be made with a *Paste exquisitely made*, the *Nut* being first *powder'd*, then *searced* finely, and then carefully *grinded*. And then there will be little or no inconvenience from the eating the *Cacao Nut* so order'd, either in *Pastills*, or *Cakes*; provided the other *Ingredients* be not *noxious*.

I shall now speak of the *qualities* and *temperament* of the *Cacao Nut*. And indeed in *Taste* it is none of the most pleasant, so those that are *not used* to it: which *Clusius* say, that, besides its *adstringent* taste, it had so *unpleasant* an one, that it was no wonder, if such, as first taste the *primitive Chocolata*, care not for it. Of the same judgment was *Benzonus*: for which he was laughed at by the *Nicaraguans*, and necessity made him to comply at last with them in drinking it in that *original* and *simple* manner. It hath a *Taste* somewhat *bitterish*, and *sub-adstringent*: and hath such a mixture of parts, that Authors no way agree in *Charactering* its temper. If we look on the *Nut*, and taste it without any other preparation, then that of taking of the *hull*, one would accord with *Ro-*

o De plant.  
Ind. Occid. c.  
54.



y per esso tienen partes astringentes, con que opila : 'The Cacao nut is by temperament cold, and dry, and therefore hath astringent parts, with which it begetteth Obstructions. Truly that it is dry, seems then sensible ; and that it is cold, the universal experience of all, who say it p

p Hernandez lib. 3. cap. 46. Acutâ aggritudine laborantibus exhiberi solet ex eo semine parata potio, cui nihil pratered commixtum sit, contemperando astui, & fervori placando, & eis, quos calida intemperies hepatis, alteriusve partis vexat.

Benzonus lib. 2. Ex nucleo Cacao fiunt sorbitiuncula refrigerantes : eam ob causam adeo exoptata, ut cum iis quidvis vel pretio, vel usu earum commutent.

Jo. de Laet lib. 6. cap. 2. Hist. Ind. Occid. Simplex enim potio (sc. fructus Cacao) refrigerat, & nutrit insigniter.

lays thirst incredibly, and cools the Liver, or any other inflamed part, seems a pregnant Argument. And of the same judgment with Roblez (who lived in Peru) was Dr. Juanes de Cardenas, who lived in the Indies, and practised Physick there, and

made use of his own judgment, as well as the Narrations of the Natives. He thinks the Cacao nut to be cold and dry in a degree betwixt the first and second. Because he is an eminent Writer, and his Assertions may perhaps suit best with the generality of Physicians inured to old Hypotheses, I shall set down the substance of his judgment as to the Cacao nut.

q Dr. Juanes de Cardenas lib. 7. De propr. Chocolatis. q 'He acknowledges a triple distinction of parts in the Cacao nut ; from whence ariseth a ternary of distinct Qualities in it. 'The first is a cold, dry, earthy, and melancholy

choly substance : which if it prevail above the rest, it produceth Obstructions, and Melancholy, and destroies concoction. The second is *airy, hot*, and proportionate to *butter*, which by agitation, and milling, riseth in froth. This he reputes to be *hot* and *moist*, and of a lenifying nature, which, whilest it prevails, begets a quite contrary effect: for it nourisheth much, and multiplies Blood, and vital Spirits, and enables men to labour. This butyrous substance doth principally manifest it self in the *Cacao* nut, when it is indifferent aged, and hath been kept a good while : and is not a little helped in the shewing it self, by being roasted, or heated in a frying-pan, or kettle, before the oil be drawn, or it be made into a paste. The third sort of parts, which he professes to be in it, is *hot*, and *dry*, which carries with it a faint resemblance of adustion, which makes it to seem bitterish to the taste. By reason of the latter parts, it becomes penetrating, and conveys the other alimentous parts into the body ; it provokes sweat, and monethly evacuations in women, it opens all Obstructions; and these guide the more oily and butyrous parts into the entrails, whereby the body is preserved soluble. This multiplicity of parts produceth several effects in the persons using *Chocolate*, according as they are healthy, or sick, of a weak or strong stomach, troubled with Obstructions,

or free from them. And much depends on the individual constitution of persons : as also on the Artificial mixture of it into *Chocolata*, whereby the several parts are acted, and vigorated, the butyrous parts set at liberty from the confinement they were under by reason of the *styptick Particles* ; which more appear to sense in the nut, then in the mass : for the former dissolve not on the tongue, ( no, not when chewed ) as doth the latter : nor hath the latter that sensible astringency, and bitterness ( joyned with its unctuousness, and aptitude to melt on the tongue ) as the former.

*Hernan Herb. Mexic. l. 3. c. 46 and Jo. de Laet Hist. Ind. occid. l. 6. c. 2. saith of it out of Fr. Ximenes, Cacao fructus teneri sunt nutrimenti, saporis inter dulcem & amarum nonnihil frigida & humida.*

*Hernandez* ( who was principal Physician in the Kingdom of *Mexico*, and was appointed by *Philip II.* to write Medicinal and Natural Observations in that Province ) is at a great loss, what Nature and Temperament to ascribe to this Nut. It is ( saith he ) made up of different Particles, but very well embodied, and mix'd ; it is something bitter, something sweet ; and either of a temperate Nature, or a little inclined to coldness, and moisture.

Others are of opinion, that this *Cacao* nut is of a temperament inclining to heat, and moisture : and they consider not the nut, as it is entire, or under no greater comminution, then what the teeth infer : but as it is grinded into a paste, and ( sometimes as ) mixed with water, and agitated into froth by



*Molinet.* And their reasons are; first, because in the grinding it into paste, and in the working it up, and in the dissolving it in Water again, still there are no visible signes of anything (if it be well done, and the nuts good) but of parts moderately *hot*, *moist*, and *unctuous*, or *butyrous*; there being little or no *terrestrial*, and *heavy*, *gross* setting whilest it is hot, and when it is milled, it goes all almost into *froth*, and *fat*, which proceeds (say they) from an airy, hot, and moist substance, mixing with winde. Another Argument they bring for their opinion from the quick nourishment it gives; For, (say they, and *Galen* too) that it could not so soon turn into nourishment of the Blood, and Spirits, if it had not a proportionateness, and agreement of temper therewith: for there would be some time requisite to assimilate and change what hath a discrepancy with our Nature, before it could nourish us. But that, which is analogous to our nature, is *Balsamically hot*, and *moist*: not *cold*, and *dry*; which are enemies to it.

*Gul. Piso* resolves the controversies of the *Cacao* nut thus,

*Veniamus ad Cacacii Qualitates intrinsecas. Has equidem ex effectibus, ceterisque indiciis, constat esse temperatas. Substantia ei ex crassioribus simul & tenuioribus partibus composita est prorsus: ut in infinitis aliis vegetabilibus observatum est, diversas omnino sub eadem forma Substantias contineri. Noster autem Caca-*

cuius in pulverem redigitur primum, & solâ mox, etsi frequenti tusione pinsitur, & in massam cogitur. Quod cum fiat sine ullius rei admistione, ratio arguit aliquid esse in eo tenacis & bituminosi instar humoris, Aeris Elemento respondens. Multa insuper eidem, quibuscum suapte naturâ miscetur, insunt ignea, quæ necessario incidere atque reserare debent corporis meatus, non verò præcludere, ut quidam voluerunt: nisi hoc intelligant de crudo, vel tosto, vel Saccharo condito, quo mulieres in Indiis nimium vesci amant, unde uteri, alvi, & Hypochondriacorum obstructions incurrunt difficillimas. Verum totum hoc oritur, quod interior ejus substantia dentium incisione non exactè comminuitur, nec perfectè commiscetur: requiritur enim artificiosa molæ versatilis contritio; atque tunc demum siquid noxiæ supersit frigiditatis, aliorum calidorum commixtione temperatur, communicatâ singulis partibus hâc intimæ jus substantiæ qualitate.

‘It is manifest by its effects, and other  
 ‘signes, that, as to its intrinseck Qualities,  
 ‘it is of a temperate Nature. Its substance  
 ‘is made up of some subtle, and some gross  
 ‘parts; which sort of mixture is observable  
 ‘in many other products of Nature. This  
 ‘Cacao nut is first beaten to powder, then  
 ‘without any accessional [ but a gentle heat  
 ‘on a stone, or iron-table, or mortar ] it is  
 ‘worked laboriously into a mass, or paste.  
 ‘Which, since it is done without the addition  
 ‘of any other thing, it is an evident Argu-  
 ‘ment,

ment, that there is in it a tenacious and bituminous Substance. The mixture of other Spicery corrects its coldness; they penetrate, and open Obstructions: so that *Chocolata* is no way obstructing; however others, by eating raw, or roasted Nuts, or crushed into confections with Sugar, (much used by the *Indian* women) may fall into tedious obstructions of the Spleen, Liver, Hypochondria, and Womb. For these inconveniencies happen, because it is not *exactly grinded*, and that the performances of the Teeth and Stomach equal not those of the rowler in grinding, and the *molinet* in actuating the Particles of the *Cacao nut*.

I shall reserve the particular decision of the controversie, untill I have made a great inquiry into the nature of the *Nut*, and its several parts, and have examined myself its several effects in *Jamaica*, at more leisure: but suggest these present Considerations.

If the Nut be a right good Nut of *Niragua* (or *Caracas*) and *Soconusco* (the Nuts of the *Islands* are not reputed equal those of the *main*: and in *Jamaica* I have eaten they have but newly learned to cure them; and used as which there is much art) and so old, good Nuts of to be at its perfection, not decay'd, and the growth of *Jamaica*, as a darkish red, approaching to black, any, I have if it is pilled, it is to Taste, *adstringent*, yet met with. and a little bitterish; but not very unpleasant



*sant* to any, who shall have eaten but a few of them. It will be *dry*, and *hard* to taste and not dissolve into an *unctuous liquour* in the mouth : though you may easily perceive in a *rich nut* to the Taste an extraordinary *butyrousness*, though *congeled*, and *fixed* by some particular Principle else. I never could observe any *coldness* in the nut at all neither, on the tongue, nor stomach nor yet any sense of *heat*. If the *sensible bitterishness* must argue *heat*, the effects of which are not further perceived, because the *unctuous* parts *implicate* and *dull* the *vigour* of the other ; and if that the *sensible unctuousness* in the most *dry nuts*, maugre the *stypticity*, evinces their *moisture* : yet will any, who *eats* the *nut*, be apt to excuse them, who by their *taste* judge the nut (ungrinded) to be *cold* and *dry* in the first and second Degree.

I have already shewed, that our Experience in *England* in my self, and others (some being *well*, some being *sickly*) doth not evidence the *Nut* eaten of it self (not reduced to a *Paste* on a stone) to be *obstruſting*, or *clogging* to the *Stomach* : and whereas it is attributed to the grinding and so commixing the parts, that it keeps the body soluble, our Experience shews, that even the *Nut* eaten produceth the like effect ; though by the *taste* one would conjecture otherwise.

Whereas it is said by some, that the *Nut* in

n Paste dissolved into water is of an *hot* as well as *moist* nature: I must propose some doubts thereto, since it is so good in *fevers*, and to quench thirst at other times; and is so repugnant to *cold Stomachs* (a general calamity in hot Climates) that the *Indians* and *English*, generally are inforced to mix with it either *long Pepper*, or *Jamaica-Pepper*, or *red Pepper* call'd *Chilli*, to make it supportable to their Stomachs: and Men, otherwise of unquestionable strength, and health, have assured me upon their own experience, that this is *true*. Besides, it is known Experiment both in *Spain*, and the *Indies*, that the *butyrous* and *oily* part of the *Cacao nut*, being taken of, and preserved from the *Chocolata*, or otherwise drawn, is a very great remedy against Inflammations, and particularly the *Erysipelas*, or fire of *St. Anthony*. And in such applications it is *sensibly cooling*.

In fine, let men debate eternally the *temperament* of the *Nut*, they, who have ascribed to it *Qualities* altogether repugnant to *nutriment*, have never controverted its incredible *nutritive* faculty. It is in this that all agree. It is *multi alimenti*, yields plentiful nourishment, saith *Hernandez*; who holds it to be *temperate*, or *inclining* to *cold* and *moisture*. *Jo. de Laet* saith of it, *refrigerat, & nutrit insigniter*, it cools, and nourishes exceedingly. *Dr. Juanes de Cárdenas* professeth, that it yields *buen sustento*  
al

*al cuerpo*, good nourishment for the body. And *Roblez*, who concurs in opinion with the other, that it is cold, and, dry, declares it to be *summamente alimentoso*, exceeding nutritive. And *Benzonus* gives it this Character, *Ea Celia sapore aliquantùm amaro satiat, & refrigerat corpus minimè tamen, inebriat* : ' That muddy Drink, or Ale, with ' its bitterish taste *satisfies*, and *cools* the body, not intoxicating any way the Head. And it is observable, that albeit the eating of *Cullises*, and *Jellies* continually, doth so debilitate the Stomach, that, thorough much use of the former, men become incapable to digest any grosser meats : of the verity of which practical Observation there is a notable instance in *Sanctorius* s of a Student at *Padua*, who, that he might have more time to study, and not be diverted therefrom by any regard of Diet, fed himself only with *Jellies*, and *Cullises*, where-with he expected not only to be strengthened much, but also freed from the concerns of exercise, and other circumstances necessary for digesting stronger meats ; but he afterwards falling sick, and being inured to no other food, then that appertained to sick-folks, whilst he was well ; being sick could receive no no sustenance at all, and so dyed lamentably for want of food, more then by the violence of his disease : I say, it is not so with the plain *Chocolata*, made of the pure *Cacao-Paste*, and perhaps a little

Sugar

De vitando  
error.



sugar, and Pepper; for the *Indians, English,* and *Spaniards*, who have lived on it several days, sometimes weeks, without any other food, do without any inconvenience resume a more gross Diet, and again intermit it at their pleasure.

I have been thus particular in the inquiry into the nature of the *Cacao nut*, because it is the principal Ingredient in *Chocolata*: and it is this *Nut* alone in the Composition, ( if there be neither *Maiz*, nor *bean-meal* in it, which may be admitted in small quantities as wholesome, for ought I can imagine; or *Pistachia nuts*, or *Almonds*; of the healthfulness of either of which, but especially the latter, I doubt as to this Composition ) which yieldeth the nourishment, and fatness, which is expected from the *Drink*, and often found. All the other are but *Spicery* ( under which I comprise *Amber-griese*, and *Musk* ) and serve at best but as a *Vehicle* to distribute the *Cacao nut* into the body, and to make it agreeable to the *Stomach*, which otherwise might, and often is troubled with the coldness of the *Cacao*, or what other *Quality* it may have ( perhaps too much relaxing the *Stomach*, or offending its orifice by its undelicatness ) whereby to offend the *Stomach*.

And since the *Indians* did first correct it with *Chiles*, or *red Pepper*, I shall speak of that in the first place.

*Chiles, Chilli, or red Pepper*, in the language

t *Acosta* Hist.

Ind. l. 4. c. 20.

u *Piso* hist. Nat.

& Med. l. 6. c.

15. ex Xi-

mene.

x *Hernandez* l.

5. c. 3.

y *Acosta* l. 4. c.

20. *Piso* ex

*Ximene* l. 6. c.

51.

z *Acosta* ubi  
suprá.

a *Piso* ubi su-  
prá.

b Mr. *Sigon's*  
Descript. of  
*Barbadas* p.

79.

guage of *Cusco* is called *Uchu*; in that of  
*Mexico*, *Chili*: or *Chilli* by the old In-  
habitants of *Hispaniola* (call'd *Haitini* by  
\* *Hernandez*) it is called \* *Agies* (by *Rob-*  
*lez*, *los Agies*) which some y otherwise write  
(according to the variety of spelling) *Axi*.  
By *Monardes* it is called *La pimienta de las*  
*Indias*. In *Portugal* it is call'd *pimienta de*  
*Brasil*. In *Brasil*, and by *Piso*, *Quiya*. In fine,  
amongst almost an infinity of names, the  
most usual now are *long red Pepper*, and  
*American* or *Brasile Pepper*, for no other  
reason, but that the *Portuguese* brought it  
first thence. z It was much esteemed of in  
old time amongst the *Indians*, which they  
carried into places, where it grew not, as  
a Merchandise of consequence. a And in all  
the inhabited places of *America* it is so  
frequently used, that there is scarce any  
meat dressed without it. b This Spice the  
*Spaniards* love, and will have it in all their  
meat, that they intend to have *picant*: for  
a greater *Hough-goo* is not in the World;  
*Garlick* is faint and cool to it. It is so  
violently strong, as, when one breaks but  
the skin, it sends out such a vapour into  
the Lungs, as he falls to coughing, which  
lasts a quarter of an hour after the fruit  
is removed: but, as long as it is garbling,  
they never give over. To describe its sever-  
al kinds, and particularize its virtues, it  
would be requisite to transcribe the Trea-  
tise of Father *Gregory the Capuchine* upon  
this

his Subject, which is to be found in *Carolus*  
*lusus's Curae posteriores*, *Piso*, and *Hernan-*  
*ez*. However that the *Spice* merits great  
 commendation, and that *c Monardes*, and *c Chap. 54.*  
*Oviedo* prefer it before the *East-Indy Pepper: d Hiflor. Nat.*  
 and that many *e* repute it to be cold, and *Ind. l. 7. c. 7.*  
*ell-tempered*: (as do *f* others that of the *e Acofta ubi*  
*afi-Indies*) yet it is by such, as regard *f Bontas c. 5.*  
 the testimony of what they taste, and feel, *De conf. valet.*  
 before traditional Discourses ) to be *g* hot *in Ind.*  
 the highest Degree. *Quartum hæc caloris*  
*adum attingunt, & tertium ferè ficcitatis,*  
 faith *h Hernandez*. And *Monardes a-* *h Ubi fuprà.*  
 ows them to be hot, and dry, as it were  
 the fourth Degree. *Es caliente, y fecca, cafi*  
*quarto grado*. There is this caution  
 ven of them, *i* that they inflame the *i See Acofta,*  
 ood, and distemper the Eyes, the Liver, *Hernandez,*  
 and the Reins; that they create Fevers, *Pifo, ubi fu-*  
 eurifies, and Peripneumonies; that they *prà.*  
 e no way agreeable for young folks, but  
 r the old Flegmaticque. Which *Afferti-*  
 is to be understood of its *unproportionate*  
 ixture with other Compositions.

Another Ingredient in the composition  
*Chocolata* is that most delicate of Spices,  
 I'd usually in England Pepper of Jama-  
 ca, by the Spaniards Pepper of Xamarica  
 to Herrera, and other Spaniards call Ja-  
 mica ) Pepper of Tabasco or Tamasco, and  
 pper of Chiapa: and by the Indians Xo-  
 xochitl. It is commonly called in Jama-  
 ca, *Pimienta*: which name they took from  
 the



the Spaniards, some of which I find to call it *gravos de pimienta*, and *pimienta* alone; though otherwise that name is of a greater comprehension. This Spice hath a most delicate smell, and such, as resemble an Orange stuck with Cloves: being swallowed whole, it amends the breath, is excellent against Wind, and helps digestion, and yields no sign of an immoderate heat; but being broken, within the outward husk, or shell, there are two (sometimes three) little grains, which make the impression of a pretty violent heat, yet short of the other Peppers: I have not met with any Writer, who utters a word to their prejudice; a few of them burnt with wine, recommend it for fragrancy, and taste, be-


yond any Spice. <sup>k</sup> *Es la Pimienta de suave olor, caliente, y seca en grado tercero, cordial, desoppilativa, provoca mezes, y es remedio à los dolores flatuosos, corrobora el estomago, y ajuda la digestion de la comida.* <sup>l</sup> *The pimienta (of Jamaica) is sweet-sented, hot and dry in the third Degree, opening Obstructions, Cordial, provoking the Terms, and it is good against Wind, and flatulent pains, it strengthens the Stomach, and Digestion, being eaten.*

Roblez gives it this Character, *E becho experientia desta semilla, o granos de Pimienta, y halla en ella el calor, y sequedad iguales, y ser a proposito para confortar el estomago, interiormente bebida, o exteriormente aplicada,*

aplicada. Sufre cossimiento medianamente, y  
rituracion mediocre, y subtil, como les de  
nas aromaticos, y le tengo por substituto de  
es clavos de especies: mata las lombrices con  
a parte amarga, y detiene los vomitos. That is:

‘I have tryed these Seeds, or Grains of  
Pepper, and I found therein an equal ficcicy,  
and heat: and they serve for to strengthen  
the Stomach, being taken inwardly, or ap-  
plied outwardly. It will endure an indif-  
ferent boiling, or punning to powder, as  
do other Spices, [ which loose their virtue  
by much beating, or boiling ] and I allow  
it for a substitute for Cloves. It kills the  
Worms with its bitterishness, and stays  
vomiting.

Jo. de Laet, in his Description of Ameri-  
ca, speaks thus of the Province of Tabasco, *Lib. 5. cap. 3.*  
and its Pepper. *Unam habet [ ea provincia ]*  
*primis arborem domesticam, quantivis pre-*  
*i, quam vocant Xocoxochitl, quæ est arbor*  
*grandis, foliis mali Aurantie, fragrantissimis,*  
*coloribus rubris instar Granati, odore item Au-*  
*rantiorum, grato juxta, ac suavi; fructibus*  
*tundis, ac racematim pendulis, qui initio*  
*videm sunt virides, postea rufi, & ad extre-*  
*um nigri; acris saporis, & mordacis; bon-*  
*te odoris; calidi & sicci in tertio gradu,*  
*ut Piperi substitui, & pro Carpo-balsamo*  
*Officinis possit obtrudi. Hispani vulgò vo-*  
*nt Piper Tabascense. Corroborat cor, &*  
*entriculum; amicum est utero; discutit fla-*  
*; aperit obstructa; movet urinam, &*  
*E* *menfes;*


 menses; succurrit colicis & nephriticis doloribus; consumit humores crassos & viscosos; fugat rigores febrium. i. e. The Province of Tabasco hath one tree particular to it [where Ximenes writ this, whom Laet follows; it was not known to grow in Jamaica, as it doth plentifully] which is call'd Xocoxochitl, i. e. a tree not to be valued. It is of a very large growth, hath leaves like an Orange-tree, being of a most fragrant scent; it bears a red Flower like to that of a Pomegranate, of a sweet and pleasing smell, and which also resembles that of Oranges. The Fruit is round, and grows in clusters, like as Grapes do, [so does the Amomum of Dioscorides] at first it is green, then red, and at last blackish: it is of an excellent smell, and biting taste. It is hot and dry in the third Degree, so as that it may be substituted instead of ordinary Pepper [but it is so farr short of it in heat, and bitingness of taste, that in Pies there is no comparison betwixt them; as I have seen,] and in the Shops it may pass [but without any resemblance] for Carpo-balsamus. The Spaniards usually call it Pepper of Tabasco. It strengthens the Heart, and Stomach; it comforts the Womb; it dispells Winde; it opens Obstructions; it provokes Urine, and the Terns in women; it helps Colique and Nephritique pains; it consumes tough and viscid Humours; and drives away the cold fits of Agues.

I cannot pass by this delicate Spice, with

on



out putting the World in mind, that perhaps upon Observation there where it grows, and a little constraining of *Dioscorides*, it may be found to be the very *Amomum* of the Ancients ; so famed in all their rich Unguents for Luxury, and so commended for Medicinal uses, instead of which we are said to put into *Mithridate*, and *Treacle*, either *Cubets*, or *Cloves*, but, I hope, henceforward *Amomum* and *Carpo-balsamus* shall find no other substitute then this Pepper of *Jamaica*. I am not the only person who propose this: *Hernandez* (*lib. 2. cap. 5.*) professeth, it may be used instead of the *Carpo-balsamus*; and who shall enquire into the *Amomum Clusii*, will find how others, as well as I, have fomented this Opinion: of which I shall treat more hereafter, when I have observed its growth. In the meanwhile it seems to be that *Garyophyllon* of *Pliny* (*lib. 2. cap. 7.*) where, having spoken of Pepper, he adds, *Est etiamnum in India Piperis granis simile, quod vocatur Garyophyllon, grandius fragiliusque. Tradunt in Indico loco d gigni. Advehitur odoris gratiâ.* 'There is at this day in the *Indies* something, that resembles Pepper, men call it *Garyophyllon*; it is bigger and more brittle then Pepper. They report it to grow in a place of the *Indies*: and it is brought hither (*sc. to Rome*) out of a regard to the delicacy of its scent. There is not any thing in *Pliny*, which carries repugnancy to our Pepper:

its excellent smell, the name of *Garyophyllon*, being the *Greek*, not *Indian* name, and signifying *Cloves*, or *Clove-gillflowers*, with the smell whereof, (and taste of the former, but mildly) it hath a resemblance. It is more big, it is more brittle, and consequently, till a clearer discovery be made, we are to presume, that we have retrieved after so many hundreds of years one of the most select Odours, that Antiquity ever boasted of.

I shall not add any more, untill I have prepared a second Edition in *Jamaica*. Instead of this, there is usually put in common *Black-Pepper*, or *White-Pepper*: concerning the virtues of which I shall not enlarge. They are well known already, and better known then approved of either by

*I Vide Pison  
in Mantiss.  
Aromat. c. 9.*

the <sup>1</sup> Natives of those Countries where they grow; or our learned Physicians in Europe.

The next Ingredient of *Chocolata* is *Tlilxochilt* ( or, as some write it, *Tlixochil* ) or, as the *Spaniards* call it, *banillas olorosas*, or *Vaynillas*. The former is the *Indian*

*m Hernandez  
Herb. Mexic. l.  
2. c. 15.  
n Piso in Mat.  
tiss. Aromat. c.  
18.*

name recorded in <sup>m</sup> Hernandez; the latter is the usual *Spanish* Term acknowledged by <sup>n</sup> Piso, and others. The Plant is compared to *Aromatical Arach*, it runs up Trees, as doth *Ivy*, it hath a broad leaf, in length eleven inches, and in breadth six, it resembles a *Plantain-leaf*, but is more fatty, it is of a deep green; it bears a blackish Flower

Flower: it produceth a Cod, that is about six inches long, slender, and of a blackish colour (yet are some, that I have seen, reddish, and yet good) their smell is admirable, they, which have parallel'd it with Amber-grise, Musk, or o Balsame, failed in their Character; for it hath a peculiar mildness, and delicacy in it, not to be found in those other. If, in the *Jamaica* Pepper we have found out what the Antients lost, it is herein that we have out-done them: it being a discovery, which, I doubt not, but a little Art will improve beyond all the odours yet known. ¶ It is reputed hot in the third Degree, and adds to *Chocolata* not only a curious scent, but taste: and moderately provokes Urine, and the monethly evacuations in women; it strengthens the Brain, comforts the Wombe, dissipates Winde, concocts and attenuates gross and crude Humours. ¶ The *Spaniards* put it into their *pharmice*, or *Sneezing-powders*, avowing it to corroborate the Brain infinitely: as I am ascertained by such, as have seen this practise in *Spain*, and the *Indies*.

Doctor Fernandez (lib. i. Sect. i. titulo *De los Barnillos*) speaks thus of them: *Son calientes, y secas en tercero grado, cordiales, provocativas de meses, y de orina, aceleran el parto, elechar las pares, cuessen y adelgason lo crudo, y fortalecen el corason, y cerebro, y ses facultades.* They are hot and dry in the third Degree, Cordial, provoke the Terms,



and Urine, and speedy Labour, and freeing for the after-birth, they concoct and attenuate Crudities, they strengthen the Heart, and Brain, and its faculties.

Doctor Juanes de Cardenas gives us this account of them. *Las Bainillas compiten con el Ambar. Son de complexion caliente, y seca en primero grado, con que don al Chocolate muy suave olor: y se accentajan a las de mas en ser muy cordiales amigas del corason: engendron espíritos de fuerte, y robusta mixtion, ayudan al cossimiento del estomago, y con su calor cuecen los humores gruesos, y crudos; y lo que es mas que todo, con las partes sutiles, y calientes, consumen lo terrestre del Chocolate; con que le dexan mas puro, y sin los dannos de lo Melancholico.* That is:

The *Vaynillas* equal Amber-grise. They are of Quality hot and dry in the first degree, wherewith they give to the *Chocolata* an exceeding sweet smell: and excell other Simples, being extraordinary strengthning for the Heart: they beget strong Spirits, and of a firm mixture; they promote digestion in the Stomach, and by their heat concoct crude and gross Humours, and, which is above all, with their subtle and hot parts they consume the earthy parts of the *Chocolata*, and so leave it more pure, and free from the inconveniencies, with which it might otherwise waies threaten the Melancholy.

To conclude this Discourse of the *Vaynillas*: It is so called by the *Spaniard*, because that

that it resembles the *Vagnuila* or sheath of a little Sword; it much resembles the Cod of a French-bean in length, and shape; it hath in it a small Seed, which fills it from one end to the other, of a blackish colour, but very subtle parts, and scent. It is observable, that one *Spanish* Writer makes it to be hot in the third Degree, and dry; another only hot and dry in the first Degree. Such Contradictions are usual in Writers of the *Indies*, and not much to be regarded further, then as the refueries of men too Methodical, or as the intrigues of Nature to be paralleled in Opium, Camphire, Vitriol, Quick-silver, &c. concerning which our most inquisitive and Philosophical Physicians are so perplexed, and differing in Opinions, that we may pardon the discrepancy of the Writers alledged here. Whosoever shall try these *Vaynillas* by the strength and penetratingness of their smell, and perhaps by the vigour of their effects, performing what nothing of *European*, or *East-Indy* growth, of a less Degree in heat, and dryness, then the third, doth; will rank them with those of that sort; but here who shall consult his Senses, and observe the mild delicacy in these *American* Products, and particularly in the *Vaynillas*, which is inconsistent with so much heat, and dryness; and shall consider, that his tongue feels nothing parallel to what happens upon the tasting of a grain of *Chili*, or red Pepper (which yet is placed as hot in the third Degree) he

will by many degrees separate and distinguish the former from the latter. And indeed these powerful effects are not the consequents of an excess of Heat, but of parts moderately hot, and well subtiliated, and digested, in a Country, whose Climate yields an uninterrupted temperature of Heat to its production: from whence we may once for all observe, that it is impossible to provide any *succedanea*, or substitutes for these kind of Commodities: for to use Cloves instead of *Vainillas* is a ridiculous mockage, and hurtful to several complexions, in *Chocolota*.

*Chacanguarica*, *Pumagua*, or *Achiote* (as *q* *Hernandez*. it is called by *q* *Hernandez*) or *Achiote*, as it  
Herb. Mexic. is usually called ( *Mr. Gage* calls it *Achiotte* )

l. 3. c. 41. is called by *Oviedo*, and *Clusius*, *Bixa*; by  
r *Piso* in *Man.* the Natives of *Brasile* r *Urucu*, and *Roucou* in  
c. 18. the Description of the *Antilles*. It is a Tree, that grows every where in the *West-Indies*, without cultivation; it is regarded as well for its use in Painting, as Phylick. It is a Tree of indifferent bigness, leaved somewhat like to an Elm, after it hath flowred (which Flower hath scarce any sensible smell) the fruit grows out in a Cod containing thirty or fourty grains, which grains, before they

When I am ripen to an hardness, yield a juice of a  
in *Jamaica*, I pure Vermilion colour: out of these grains,  
shall inform either ripe, or unripe, is the r *Achiote* for called  
my self of the different

operation of *Achiote*, according as it is differently made: of which they, who bring it, or sell it, can give no account.

made



ade by a way, I shall not repeat ; yet in  
e making of it up there is so great a differ-  
ce, that it is very considerable, some ha-  
ng been purged to death, & others thrown  
to Fluxes by mixing *Achiote*, not rightly  
epared, in *Chocolata* ; which hath occasio-  
d some to speak against its being put into  
But it is not by that Character, that the  
od *Achiote* must be censured : for, if right-  
prepared, it is with very good effect  
xed with meats in the *Indies* to meliorate  
eir taste, and colour, and smell too. And

*Chocolata* it produceth all these effects, if <sup>*Piso ubi*</sup> *suprà*.  
t in a due proportion : and makes it to be <sup>*Urucu, sive*</sup>  
ank more safely, and with lesse nauseous- <sup>*Achiote effi-*</sup>  
ts : it makes it also to purify the Blood <sup>*cit, nè Choco-*</sup>  
ore, and to strengthen the inward parts. <sup>*late, quantavis*</sup>  
*Brafile* the *Achiote* grains, being duely pre- <sup>*quantitate*</sup>  
red into Cakes, are mix'd in an indefinite <sup>*hausta, noceat :*</sup>  
portion with a dish of *Carima* ( which is <sup>*illius quippe*</sup>  
de of *Tipioca* ) and given against Poysons, <sup>*ope facile*</sup>  
other Distempers, promiscuously. <sup>*digeritur si-*</sup>  
ngthens the Stomach, stoppeth Fluxes, <sup>*ne ulla crudi-*</sup>  
l, being mixed with agreeable Juleps, al- <sup>*tate. Ita Fr.*</sup>  
eth Feverish heats. \* It is cold, and dry, <sup>*Ximenes a-*</sup>  
moderately adstringent. <sup>*pud Burggra-*</sup>  
<sup>*vium in Hist.*</sup>  
<sup>*Bas. l 2. c. 3.*</sup>  
<sup>*u Piso Hist.*</sup>  
<sup>*utr. Ind. l. 4.*</sup>  
<sup>*c 14.*</sup>

*Piso in Mant. Aromat. c. 18. Fructuum grana rubri frigida sunt &*  
*cum modica adstriptione : ex quibus placentulas efformant, quæ non*  
*in medicamentis contra quosvis Sanguinis Fluxus inordinatos, sed*  
*bariis immiscuntur, gratumque simul saporem & colorem iis sup-*  
*ant. Inprimis autem omnia hæc beneficia præstant confectiõni no-*  
*Chocolatæ, si certâ quantitate addentur ; tutius enim tunc bibitur,*  
*tra satietatis & nausæ incommodum : adde, quod sanguinem ma-*  
*urificet, & viscera corroboret.*

Having

Having given you this testimony of from the learned *Piso*, who interested not himself much in the digesting Plants into several Degrees, according to their first Qualities; but consulted unquestionable Experience: I shall now represent the several Characters of this *Achiote*, given by *Spaniards*, and such as lived in the *Indies*.

The *Spanish Doctor Fernandez* doth thus Character it in his first Book, *Señal* 1. Chap. 14. *Entre se base de la semilla de un arbol cosida. Y es frio en tercero grado con alguna adstriccion, Mitiga la sed: y, mezclado con el agua, templal las calenturas ardientes, y cura la dysenteria de humores colericos. Da gusto, y sabor, y oler al Chocolate, y le haze mas fresco: de mas de que ayuda a la digestion y no solo se mezcla para color al Chocolate, no por que engorda, y annide sustento, con la parte pingue, y butirosa, que es la que en el prevalece: y siendo assi, tiene partes calientes, como son todas las butirosas.* It is made of the grains of a Tree boiled. It is cold in the third Degree, with some adstriction. It allays the Thirst, and being mixed with Water, tempers the burning-Fever, and cures the Bloody-flux, occasioned by Choler. It gives a taste, relish, and colour to *Chocolata* and makes it more brisk; besides it helps digestion: nor is it mixed with the *Chocolata* for the colour's sake alone, but also because it fattens, and encreaseth its nourishment with its fat and butyrous parts, which pre-

evail in it: and, being so, it must needs have  
 its parts in it, as have all butyrous things.  
 With this agrees the Mexican Herbal, lib.  
 cap. 41. *Frigida est ordine tertio, & non-*  
*nullam siccitatem adstrictionemque participat.*  
*-Extinguit, epotum, aut admotum, febri-*  
*um incendia, opitulatur Dysenteriis, re-*  
*lucque tumores præter naturam; quo fit, ut E-*  
*phematis, frigoricis Potionibus, seu Jula-*  
*is, & quibusvis in frigidantibus cibariis, &*  
*medicamentis, misceri perquam commodè possit.*  
*Ad dicitur semen Chocoatl, (id est, Chocolatæ)*  
*frigerii gratiâ, commendandique saporis, at-*  
*que coloris. Dentium doloris è calida causa ortus*  
*est, corroborat, evocat urinam, sitim ex-*  
*tinguit, ac croci apud aliquas gentes gerit vicem.*  
*-Adstringit nonnihil, idèoque, cum resina per-*  
*mixtum, medetur scabiei, atque ulceribus, ven-*  
*iculum corroborat, fluxum alvi cohibet, lac-*  
*rimæ permixtum crustis Cacaoatl (id est,*  
*Chocolatæ) quem reddit innoxium quâcunque*  
*insurâ bibatur: ejus siquidem gratiâ, facillè,*  
*citra satietatis incommodum solet concoqui.*  
*(e) 'It is cold in the third Degree, and*  
*participates of some adstriction, as well as*  
*styness. --- Being given inwardly, or*  
*outwardly applied, it allays Feverish di-*  
*tempers, it helpeth the Bloody-flux, and*  
*repels præternatural Tumours; for this*  
*use it may be mixed in cooling Epithe-*  
*mes, Julips, or any food, or Phyllick, used*  
*to cool. It is mixed with Chocolata to*  
*cool, as well as to embitter the taste, and*  
 colour



See Pison.  
 Histor. Ind.  
 lib. 1. 4. c. 14.

colour. It helpeth the Tooth-ach arising  
 from hot causes, it strengthens the Gum  
 it provokes Urine, it quencheth Thirst  
 and with some Nations it is y used instead  
 of Saffron — It is somewhat adstringent  
 and therefore, being mix'd with Rosin,  
 cureth the Itch, and Ulcers; it strengtheneth  
 the Stomach, stoppeth the Fluxes of the  
 belly; it encreaseth Milk, being mix'd in  
 Chocolata; which last drink it renders ver-  
 ry innocent, in how great quantity soever  
 be drunk: for, by reason of the mixture of  
 Achioté, it is drunk down easily, and with-  
 out any ensuing nauseousness of the Sto-  
 mach.

Lib. 5. c. 3.

Jo. de Laet in his Description of the  
 West-Indies reports thus of Achioté. *E sem-  
 ne [sc. Achiot] fit tinctura coccinea, quâ  
 Flores utuntur: eadem & in Medicina usur-  
 patur, quum frigida sit qualitate. Cum aqua  
 aliqua ejusdem qualitatis hausta, aut foris ap-  
 plicata, mitigat æstus febriles, sistitque Dysen-  
 teriam, denique utiliter adjungitur omnibus  
 Potionibus refrigerantibus, unde etiam vulgè  
 miscetur potioni Cacao ad refrigerandum, et  
 bonum saporem & colorem illi conciliandum.*  
*i. e.* ' Out of the seeds [ of Achiot ] there  
 is made a Scarlet tincture, which is used by  
 Painters. The same is also used in Phy-  
 sick, being of a cold Quality. Being mix-  
 ed with a proper Vehicle, and either given in-  
 wardly, or outwardly applyed, it allay-  
 eth Feverish heats, and stops the Bloody  
 Flux.

lux. In fine, it is with much benefit put into cooling Drinks; wherefore it is commonly mix'd with the *Cacao*, to make it cooling, as well as to amend the taste, and colour.

I have shewed the Opinion of such, as favour it being cold even in the third Degree: and therein only it is matter of Opinion; for as to the Effects attributed hereto, I believe them to be of unquestionable authority, being grounded upon the actise of the *Indies*, and not established upon Conjectures. I now come to propose the Opinion of that diligent observer *Rob- z*, who irreconcilably differs from the rest, as it follows. *El Achiote, o Viza, assi le aman los Indios, le echan en las comidas por cafran. Es caliente, y enemigo de nuestro calor natural, offende las partes espirituales, traga el higado, es ventoso sobre manera, y que su calor, y humedad pasa de segundo tercero grado, lleuanta vapores gruesos, macha los Hypochondrios: dicen que es a proposito para las passiones de ornia. Todo el chocolate, que viene de la Nueva-Espanna, Guatimala, viene cargado desta terrible za, baptisado con nombre de Achiote; y ven los Medicos a consejar, no se use deste en exceso, por que tengo por sin duda, que el achiote es una lima serda, que produce en los otros malas passiones: y assi desseara tener autoridad para moderarlo, tengole por caliente en grado tercero, y humedo en segundo;*

y por sas propiedades enemigo de nuestra natural. That is,

‘ *Achiote*, or *Viza*, as it is call’d by the  
 ‘ *Indians*, is used by the Natives in the  
 ‘ meats instead of Saffron. It is hot, and  
 ‘ destructive to our natural heat, it offendeth  
 ‘ the spiritual parts, it weakens the Liver,  
 ‘ it is beyond measure flatulent, and windy  
 ‘ because its heat and moisture equals the  
 ‘ second or third Degree: it raiseth gross Vapours,  
 ‘ it causes a tension in the *Hypochondria*: they say, it is good to ease Distempers  
 ‘ occasioned by stoppage of Urine. And the *Chocolata*, which comes from *New-Spain*  
 ‘ and *Guatemala*, is fill’d with this horrible  
 ‘ Ingredient, Christen’d with the name of *Achiote*, and Physicians ought to give advice  
 ‘ lest people use it in too great a quantity  
 ‘ and with excess: because I am undoubtedly  
 ‘ assured that it insensibly consumes us [ the  
 ‘ Spanish is not to be expressed, I think, more  
 ‘ fittingly ] and creates in us many other  
 ‘ evil Distempers: and therefore it ought to  
 ‘ be restrained by publick Authority.  
 ‘ Suppose it to be hot in the third Degree,  
 ‘ and moist in the second: for its Quality is  
 ‘ is repugnant to our nature.

z Yet it hath  
 so violent a  
 piercing on  
 the tongue,  
 that the im-  
 pression cea-  
 seth not of a  
 long time af-  
 ter.

It may seem very strange how so learned  
 and experienced and observing a man could  
 run into an Opinion so contrary to the opi-  
 nion of *Hernandez*, both living in the *Indies*,  
 one in *Mexico*, and the former in *Peru*.  
 If we regard our taste, it seems to please  
 for.



or Hernandez: as being evidently cooling though not to that Degree ) and somewhat adstringent ; though the coldness and astringency sensibly differ, according as it is better or worse prepared: I mean according to the taste, for I have yet experimented it no further. If we consider its Effects, such as have been related, they seem still to oppose Roblez, and assert its cooling, and adstringency. As to that entity, which he maketh it to have with humane Nature, the universal experience of the Indies ( and of all, that use it ; supposing the *Achiote* rightly prepared ) particularly of *Brasile*, *New-Spain*, and *Guatimala*, in the latter of which *Chocolata* hath been immemorially drunk, and in both which places it is the general and famed Drink, both refute him. Nor is every thing, that is hot and moist in the third Degree, to be exterminated Physick, as destructive to our nature. What Apology then can we make for so learned and observing a man? The principal excuse that I can make for him, is, first, that he relies upon the Authority of the *Indians*, who it seems are as peremptory, that *Achiote* is hot, as that *Chilli*, or red Pepper is cold. Secondly he observed, what is also granted by *Fernandez*; That, however it had cooling and astringent effects, it had also an operation of a quite different nature: for *per las partes aereas*, y *delgadas tambien desopila*, y pro-

voca

a One sayes  
of him in this  
case, *Falsâ In-*  
*dorum radî-*  
*tione errat, non*  
*exacto verita-*  
*tis examine.*

voca mezes, y sudor: by its aerial parts it did open Obsiructions, provoke the courses in Women, and cause Sweat. And this operation of *Achiote* is likewise attested by two eyewitnesses, Dr. *Juanes de Cardenas*, and Dr. *Juanes de Barrios*; and is confirmed to us by <sup>b</sup> Mr. Gage in these ensuing words. *Achiote* bath a piercing attenuating Quality, as appears by the common practise of the Physicians in the Indies, experienced daily in the effects of it, who do give it to their Patients, to cut and attenuate gross Humours, which do cause shortness of breath, and stopping of Urine: and so it is used for any kind of Oppressions, and is given for the stoppings, which are in the breast, or in the region of the belly, or any other part of the body. Now, since

<sup>b</sup> Mr. Gage's  
Surv. c. 16.

Mr. Gage in another place speaks thus of *Achiote*. 'In *Nixapa*, within the country of *Guaxaca* grow many Trees of *Cacao*, and *Achiote*: whereof is made the *Chocolatte*, and is a commodity of much trading in those parts; though our English and the *Hollanders* make little of it when they take a prize of it at Sea, as not knowing the secret virtue, and quality of it for the good of the Stomach. Gage chap. 3. Which Passage, whether we understand it of compound *Chocolata*, or of simple *Achiote*, it amounts to one thing, since it manifests the innocency of it in our Composition.

these effects are usually performed by Medicines of such a nature, as *Roblez* attributes to *Achiote*, it is to be presumed, that he said it upon that ground: but that operatio sequitur esse, that from a parity of Effects one may argue a resemblance of Causes, is

an error in Physick. And in that he saith, it bath an opposition, and qualities destructive to

the nature of *Man*; I suppose, it being granted to have a *diuretique* and *diaphoretique* nature, and that it introduceth a fusion (and precipitation oftentimes) in the Blood, it may then be granted to bear an hostility against our bodies, if taken by way of food, what is really *Physick*; and what *Hippocrates* saith of *Purges*, that those in health bear them with difficulty: and that they do lepredate, and dissolve, by way of colliquation, the flesh, this is true of *diuretique* Medicines, if frequently or continually used by persons in perfect health: which as it is the course prescribed to make people lean, so it is inconsistent with the intended use of *hocolata*, which is to make fat: and this might as well merit his censure there, as the unseles taking of *Smallage*, and *diuretique* rootages with us in *Spring*. He prohibits it in excess only, in too great a quantity.

This I thought to be fit to say by way of Apology for *Roblez*; I shall only add, that others do repute this *Achiote* to be of a very temperate quality: and as no sense convinceth it to be hot; so its de-obstruſting faculty, and its *diureticalness* (it being highly commended not only to dissipate gross Humours, but even the Stone in the kidneys) argue it not to be very cold. However, it is certain, that the *Achiote* ought to be good, and that it ought to be put in but in a due quantity: for as the Reasons specified render the excess of it suspicious;



so do those other, that it *meliorates* the colour, taste, and smel of the *Chocolata*; and makes it agreeable to the *Stomach*; these manifest the necessity of commixing some: and for this we have the *Precedents* of *New-Spain*, and *Guatemala*, and *Mexico*, and the general consent of such *Writers*, as have recommended it to the practice of other parts of the *World*; as you may see in *Piso's* *Discourse of Chocolata*.

*Mecaxochitl*, *Mesacuchil*, *Mechasuchil*, or *Mecacuce* ( as *Paulus Zacchias* calls it in *c* *Piso* ) in *Spanish* it is called *Manojitos de olor*. <sup>d</sup> It is a peculiar sort of *Pepper*, growing only in *Mexico*, and as it resembles long *Pepper*, so it may be <sup>e</sup> reckoned as a sort of it. It is hot in the fourth Degree, and dry in the third; if we may credit <sup>f</sup> *Hernandez*, and <sup>f</sup> *Piso*: but as other *Ingredients* have been strangely represented by *Indian Physicians*, as to their qualities, so it is with *Mecasuchil*, for *Franciscus Ferdinandez*; (lib. 2. Sect. 1. c. 13. ) gives us an Opinion of his very discrepant from the former, viz. that it is only hot in the first Degree, and dry in the second: his words are these; *Esta especie Aromatica es caliente en primero, seca en segundo, cordial, util à las ventosidades, y contra veneno, echa la criatura muerta, es provocativa de meses, y orina, que facilita los malos partos, y abre opilaciones, y es corroborante con moderada adstriccion; que repara el calor nativo, y alimenta el influente con nu-*

<sup>c</sup> *Piso Mantif.*  
*Arom. c. 18.*

<sup>d</sup> *Id. ubi supra.*

<sup>e</sup> *Hernandez*  
*Herb. Mexic.*  
*lib. 5. cap. 13.*

<sup>f</sup> *Ubi supra.*

*evos espiritos, que cria, fortalece el higado, y es excelente en la templansa y mixtion Aromatica.*

‘This sort of *Spicery* is hot in the first Degree, and dry in the second; it is Cordial, good against Wind, and Poyson; it brings away the dead child, it provokes Urine, and the Terms; it gives quick delivery in time of an hard labour; it opens Obstructions, and strengthens the body with a moderate adstriction; it repairs the decay of natural heat, and fills the nourishment passing to each part with new spirits, it strengthens the Liver, and is of an excellent temper, and Aromaticque mixture.

It is put into *Chocolata* not only because it gives it a good taste, but because it opens Obstructions, cures Colds, and Distempers arising from cold causes; it attenuates gross Humours, it strengthens the Stomach, and it amends the Breath, and resisteth Poysons, and in this Character *Hernandez* & *Piso* differ little. Ubi supra;

*Xochinacaztlis, Xochinacatlis, Orichelas* or *Orejuelas*, ( in *Spanish* ) and ( in *Latine* ) *flos auricule*, <sup>h</sup> is a tree with long and narrow leaves, which bears somewhat large flowers, the leaves whereof are inwardly purple-colour’d, and on the out-side of a grass-green, they somewhat resemble ears, whence they have their *Spanish* name: they are of a very pleasant smell. These flowers are of great esteem in the *Indies*; there is

<sup>h</sup> *Hernandez & Piso ubi supra.*

not any thing more *valued*, nor more common in their Shops. They contribute much to the grace of the *Chocolata*, and improve it as far beyond its self, as it transcends other Drinks: they give it a rich scent, and taste, and render it very wholesome. It is said by <sup>i</sup> *Hernandez* to be *hot* in almost the fourth Degree, and *dry* in almost the third: and <sup>k</sup> *Piso* ascribes to it the same temperament, that he doth to *Mecasuchil*. It is allowed <sup>l</sup> to strengthen the stomach, being troubled with cold, and winde; to revive the Spirits, and beget good blood, and nourishment, and to provoke the monethly evacuations in women. But its temperament is more controverted: for the Doctors *Juanes de Barrios*, and *Cardenas* repute it *hot* in the first Degree, and *dry* in the second. I have already declared the Opinion of *Hernandez*: and *Franciscus Ferdinandez* (lib. 1.) saith, it is *hot* in the third Degree, and *dry* in the second. His words are, *Ninguna es de major valor, para esta bebida per Aromatica cordial, y de excelente olor: caliente en tercero grado, seca en segundo, y que conforta el corason, cordial en la vitalidad, cria muchos y robustos espiritos, y mas de los vitales, de fuerte y robusta mixtion, indissolubiles: y es de excelente sabor.* 'There is no Ingredient in *Chocolata* of greater esteem, by reason of its Aromatical and Cordial virtue, and excellent smell: it is *hot* in the third, and *dry* in the second Degree, it strengthens

<sup>i</sup> *Hernandez*  
Herb. Mexic.  
lib. 2. cap. 4.  
<sup>k</sup> *Ubi supra.*

<sup>l</sup> *Hernandez*,  
& *Piso ubi*  
*upra*: with  
whom agree  
the Dr. *Juanes*  
*de Barrios*,  
& *Cardenas*.



strengthens the Heart, and Vital parts, it begets many and strong Spirits, and especially the Vital Spirits of a strong mixture, not dissilpable : and it hath an excellent taste.

Besides the fore-mentioned Ingredients, several others are put in partly by the Indians, as Maiz; partly by others, as Anise-seeds, Fennel-seeds, Cinnamon, Saffron, Sugar, Cloves, Mace, Orange and Limon-pill ( in a small quantity ) Musk, Amber-grise, Orange-flower water, Almonds, Filberts, Pistaches, the Chymical oyls of Cinnamon, Cloves, Nutmeg; and some leave out Achioté, and colour it with Santals: in fine every Chocolata-maker puts in what he doth think good, and cordial, or pleasant, and leaves out what he dislikes, insomuch that some reduce Chocolata almost to Ginger-bread; and put in little of the true Cacao-nut. Nor is this variety practised only in England; in Spain, and Portugal there is the like; and an infinite discrepancy in the Ingredients, and proportions<sup>m</sup> of them. I have not time, nor can it justly be expected, that I should give a particular account of the mentioned Ingredients, whose Nature may be found in every Herbal almost : I shall only give these general Observations.

to the other Ingredients : in that, which I commonly use, the Cacao-nut is little more then half of the composition, which proportion is allowed by Piso: in the vulgar Chocolata, which is made to eat in Cakes, or Lozenges, there is hardly a third part of the Cacao-nut.

<sup>m</sup> In that, which I made, and which pleased His Majesty, the proportion of the Cacao-nut was double

## CHAP. IV.

*General Observations about Chocolata.*

1. **T**hat there ought to be a great care in the due choice of the *Cacao* nut. For there is a great variety in the *nature* and *taste* of the *Nut*: some are *bitterer* then others, some are more *oily* and *nourishing* then others. Thus those of *Carraca*, or *Nicaragua*, were chosen by me to prepare *Chocolata* for His Majesty, notwithstanding that I had seen some from *Jamaica*, that were very well *tasted*, and well *cured*: for there is not only a great difference in the growth and nature of the *Nuts*, but in the *curing* of them; for, if they be not gathered in due time, and well sweated after they are gathered, and that upon *Mats*, not *Boards*, (for the *Mat* dries up the sweat better, then the *Board*, in which whilst they soak, the *Phlegm* is re-imbibed by the *Nut*, and the *oily* parts not sufficiently exalted, and digested) the *Nuts* are not so good, as that we should expect any great excellency from the *Chocolata*.

2. That there ought to be a great care in the *Picking*, *Garbling*, and preparing the *Nuts*. It is not sufficient to choose *Nuts* of a good age, and growth; old, but not decayed: (for these are most *oily*) nor to cast away such, as are apparently corrupt: but having dried them (in the doing of which beware you burn them not; and so *imbitter* the

the Composition ) you must *bull* them, and then *pick* them, casting away all the corrupt and musty ones ; for, if you be not careful herein, the *Chocolata* will in a little time shew it self to be musty, and decay. I had once some new *Chocolata* shew'd me, to ask my judgment of : and it seemed to me then very pleasant, and good : within a fortnight after, I tasted it, and it was good for nothing ; so musty was it, after it had fermented a while by standing : yet was it carefully kept. It is usual amongst the *Chocolata-makers* to repute those Nuts good, and sound, which are blackish, and not musty, nor rotten ; though upon breaking of the Nut, in the several divisions and parts there be in *intercurrent hoariness*, which will vanish at their drying : but I suppose all rational Persons will grant, that that is a tendency to corruption ; and any curious Observer will distinguish those Nuts from such, as have not the least *inchoated* decay, by the taste. After all this garbling, they must be well beaten to powder, and finely *searced*, or else the *Paste* will not be good : for, although, in the *grinding*, they will mix, and melt into a *Paste*, yet will not that *Paste* consist of so small *Particles*, as when *searced* ; and consequently not dissolve so well in the *Potion*, as otherwise it would.

And after it is thus prepar'd, in the grinding of it there is much of Art : I have already excepted against the making it in a



Mortar, or on an Iron Table; the only way to moderate the heat, and to preserve it from discolouring ( by the iron ) or running too fast into oyl, whereby it is made unfit to keep; and also some parts unequally dissolve, the *Spices* mix not well, and it is precipitated in the making up before a sufficient incorporation, and never ferments right, nor attains its perfect gust.

I have already spoken concerning the way of grinding the *Spice*, rather than beating it; and that with this caution, that the *Spice* be not only ground singly over, but after ground all together, that so the several parts of each individual *Spice*, and Ingredient, may operate upon the subtiliating of the other; besides that hereby each is more exquisitely commix'd, then by any other way can be contrived.



I am of the mind, that if there be any settling at all in the *Chocolata* Drink, it is either because the Nut is faulty, being ill-cured, unripe, new, or corrupt, and so its parts dissolve not into oyl, but sever themselves, or because it is not well beaten, and searced; or made up too hot, and so hastily dispatched, because some parts dissolve too much, and others not at all: or the *Spice* is not well beaten, and incorporated; or by reason of some other Mixture: for otherwise there will not be any Settling at all, nor any such terrestrial parts, as some besides the *Spaniards* do imagine. This is to be understood of the *Chocolata* being hot: for, if it cool, the pores of the

e water, being fill'd with a *sufficient* proper-  
 n of Particles, do precipitate the su-  
 rfluous Corpufcles to the botrom; as do  
 her liquors in the like cafe. To prevent  
 is difcovery, the *Chocolata*-fellers mix an  
 g or two or more with it, that fo the in-  
 folved, or indiffoluble parts may be fup-  
 orted by the grofsnefs of the Liquor.  
 he like is to be feen, when it is prepared  
 th Milk; which is a thicker body, and  
 ll bear more and greater parts innatant,  
 en water: yet it is to be noted, that let  
 e beft *Chocolata* be prepared milled, and un-  
 lled, and there will be a great difcrepancy  
 the *innatant*, *supernatant*, and *subfiding*  
 dies; but in good *Chocolata* either there  
 no *feeling*, or *remanence* in the bottom  
 the Cup you drink, if it be indifferent  
 arm: or, if there be, it is not *black*, but  
 ddish and *oily*, and eafie to be digefted; the  
 ntrary whereof is obfervable in the ordina-  
 , and *Spanifh*, as well as *Dutch Chocolata*.  
 Since that the effe& of *Chocolata*, as to  
 nourifhing nature depends upon the *Ca-*  
 o nut, that *Chocolata* is beft, which hath  
 oft of it; all things elfe correfponding:  
 and that worft, as to the aforefaid end,  
 which hath leaft of it; though that be en-  
 avour'd to be fupplied by *Almonds*, *Fil-*  
 rts, *Piftaches*; thefe laft being more ftopping,  
 3 nourifhing, and not *difolving* in the Po-  
 an proportionably to the other.

Since that the *Paffe* muft be *well work'd*,  
 and

and that the excellency of *Chocolata* li  
 in that the parts of the *Cacao nut*, bein  
 not too much dissolved into an oyl; for the  
 it will not keep; nor endure the heat  
 your hand, or pocket (especially in *Cakes*  
 but melt; and yet must be kept in a box,  
 place temperately hot, and free from mo  
 sture, or it will mould and decay: or,  
 that the said parts of the *Cacao nut* l  
 sufficiently dissolved; for otherwise it wi  
 keep neither ( in *England*, without care  
 nor ferment well, and attain its delica  
 taste; but yield a setling: Upon this sco  
 it seems to follow, that neither the pu  
 ting in of *Orange-flower water*, nor *Ch  
 mical oyls*, into it at its making up, is good  
 for it hinders it in the working, to be suff  
 ciently dissolved; or causeth it to dissolve t  
 much: nor could I ever yet see any wit  
 those oyls in it, which would keep or car  
 well (especially in *Cakes*: ) but this is ne  
 the only reason against them.

For, if to *Stomachs*, that are in perfe  
 health, and of a good temper, it be prejud  
 cial to give things too hot, and qualifie  
 rather to dissipate then continue the vigor  
 of the *Spirits*; and such are *Chymical oyls*  
 and hot *Spices* in a great proportion: hence  
 we see cold distempers, as the green-sickness  
 rheums, and the like, to follow upon eat  
 ing much thereof; as <sup>n</sup> *Piso* observes, the  
 eating of *Nutmeg*, ( however much crye  
 up in distempers of the Memory, and Brain  
 di

n *Piso* in *Man-  
 riss. Arom. c. 9.*



introduce, to his knowledge, forgetfulness, dulness, and sleepiness. The like is observed concerning Nutmeg and Mace in Jabby ° Bontius: and Rondeletius somewhere tells us, that in France the Maids drink *de Med. Ind. lib. 1. cap. 5. De Aromat.* *ager* to make them look pale: of which I once saw the Experiment in a fair Patient; which recovered upon the discontinuance of what she drunk by advice as Physick to a cold Stomach. But however that I do not approve of the putting in of those East-ly Spices, yet I do

in any way disallow those more delicate and old ones of America; the defect of which I propose is not to be supplied by any Cloves, Nutmegs, or Black Pepper. And although I commend our American Spice, yet should I not have extolled them, but a meanness; especially of the Chiles, or long red Pepper, which though be very good for weak Stomachs (which reign generally in the Indies, and hot Countries) yet hath it its faults, which I have already recited: yet of this, that, which is brought as the richest from Spain, and imitated by several here) is too full; so that I have felt the impression of it on the

As to the Chymical oyls, you have a further exception against them hereafter: be pleased here only to add, that such oyls being dissolved in the Stomach, as they are more dissipable (so as to relinquish the Cacao-nut in the Stomach, whilst they diffuse themselves by the Nerves, or Veins, into the body) and more dissipating being vigorated by the fire, and disengaged from the gross parts, which detained them before in solid Spices; so the use of them frequently or constantly produceth the same infirmities, that do the Spices themselves.

*glandules*

*glandules of my throat* for a long time after I drank of that *Chocolata*.

Since that it is necessary, that *Chocolata* be kept at least a moneth, before that it can arrive to its proper Taste ; which is a known thing, and I have tryed it : even that, which so pleased him above any, that *Spain*, *Flanders* produced, had not the advantage of time ; for a moneth after it had a much more excellent taste then before. It being so, we are to have regard to the particular age of the *Chocolata* to be used : for, if be new, it is not come to its Maturity, nor attained that perfection, which is to be gained by long Digestion, and Fermentation ; being observed, that several Compound (which is demonstrable in *Treacle*, at *Mitridate*) derive a particular virtue from a long Fermentation, distinct from what the several Ingredients new put together have : nor is this benefit of Fermentation to be denied to *Chocolata* ( though it can never be bad, if the Ingredients be good, and well ordered, and proportioned ) since we experience it in the good *Chocolata*, that becomes better ; and in the bad, that ( however it may taste well at first, if the nuts be corrupted and musty ) it will suddainly grow worse notwithstanding the goodness of the *Spices*.

Since Age and Fermentation is so requisite to the improving *Chocolata* ( which is avowed by the most accurate *Spanish Physicians* : I leave it to the consideration

Me

1, if the making it up into *Cakes*, or *Enges* can be so good; since neither in so all a proportion, nor so small a bulk do compounds ferment well, nor Spicy preparations keep their vigour.

Besides, if *Age* and *time* be requisite to imbettering *Chocolata*, how can any *minical Oyls*, or *Spirits*, be properly put in, e they admit not so long keeping, but porate, and so destroy the Composition ended to be enriched by them: they ry away with them the choice parts of *Cacao Nut*, and deal by *Chocolata*, as *Drinks* and *Spicery* by our bodies, which ate *Apoplexies*, *Palsies*, and other cold *Tempers*.



## CHAP. V.

### *Concerning the effects of Chocolata.*

TO speak concerning the particular effects of *Chocolata* may to some seem a perfluous attempt; and to others impossible. The former may ground their Opinion upon what I have said of the *Cacao*; whose *virtues* and *nature* being known, cannot ignore the *nature* and *effects* of plain simple *Chocolata*, such as alone in the commendation of the *Indian Experience* for so many years: it being made of nothing but *Cacao Nuts*, and *Pocholt-grain*,



grain, ( which I suppose to be all one with the *Paniso* ) incorporated; and in time use it was dissolved in *Atolle*, ( which as it is I have already told ) and that was refrigerating, and very alimentous undubitable. The *Achiote*, *Orichelas*, and *Vaynillas*, were not ordinary Ingredients but occasionally put in, as People's Stomachs could not bear the common Composition being too cold, or too Uuctuous ( and so laxing of the Stomach ) to Persons of a more than ordinary debility of Stomach : and according as they were more or less weak so they put in more mild *Spices*, as the *Vaynillas*, &c. or the more violent, as *Agio* or *Guiny-pepper*. So that I, having enlarged about the *Cacao Nut*, may just seem to decline a repetition of what I have said. And as to more elaborate Compositions, abstracting from the already declared nature of the *Cacao Nut*, and other Ingredients already related, or hinted, it seems impossible to declare any great thing concerning those, since their Compositions are unknown, and not established by Experience, but the conjectures of Physicians, and ignorant *Chocolata-makers*, who amass whatsoever is good, or pleasant alone, to be an Ingredient of this Composition. Which course is very vain and foolish, since even *Cordials*, and *hot things* ( however effective in swoonings, or distempers of cold and wind ) are prejudicial to the healthy, and suit n

th all Tempers ; no, nor with any as con  
 nt Diet, but as *Medicinal*, which is no  
 e real use of *Chocolata*. The *Indians*, a  
 ey used it for food, and daily aliment,  
 epared it as aforefaid : upon occasion of  
 evers, and other hot Distempers, they made  
 me little alteration of it, fuitable to the  
 eafe, and fo in Fluxes, and Dysenteries,  
 d imbecillity of Stomach. They put no  
 gar in it, nor otherwise enriched it in that  
 ey ordinarily fed on; and to this day  
 ey have not encreased their way beyond <sup>q Mr. Gag.</sup>  
*Cacao*, *Achiote*, *Maiz*, and a few *Chiles*,  
 Chap. 16.  
 d a little *Anife-seed*. Nor did the *Spani-*  
*ds* vary much from it, long after they had  
 bdued the *Indies*. About fifty years ago  
 began to be used in *Spain*, being sent over  
 r a delicacy, after that they had enriched  
 and given it a pleasant *gusto* at *Mexico*. And  
 hat is now used, if we look back to *An. Colm.*  
*Ledesma's* way, is of a newer date: and if it  
 arce have the credit of being experienced ;  
 uch less have the several variations created  
 nce : which have no other Original, then  
 at a *Spanish* Physician, finding his Patient  
 sed, or enclined to *Chocolata*, prescribed it to  
 am, or her, with a mixture of these Spices, or  
 ther pleasing and rich Ingredients ( and  
 Sometimes not so) to be taken to open Ob-

r Thus Ant.  
 Colmenero

ys, you may add the seeds of *Melons* and *Pompions* of *Valencia*  
 eyed, and powdered, or *Ceterach*, *Amber-grise*, and *Musk*; o-  
 ers add *Trochiscs* of *Rhubarb*, *Madder-roots* powdered, and pre-  
 ared steel, and so give it, as an alterative.

structions,

fructions, and to strengthen Nature after  
 general course of Physick premised : and the  
 kind of *Chocolata*, being successful in the re-  
 covery of one Grandee, or eminent Lady  
 must be propagated to be the entertainment  
 of others, whose indispositions require it not  
 or whose healthy condition cannot bear it.  
 For it is not to be thought, that *Gusman d'*  
*Alfarache's* Hospital of Fools is confined to  
*England*; no, in other Countries there are  
 those, that can be as impertinent in their *Cho-*  
*colatas*, or other *Cordials*, as our Ladies, and  
 Gentlewomen are, who obtrude upon their  
 Visitants their Diet-drinks, Herb-pottage  
 Cordials, and Confections, with the solemn  
 recommendation of, It was used by such  
 and such :---It contains nothing, but what is  
 opening.---It is good for the Spleen, or Li-  
 ver.---It dissipates wind,---and a thousand  
 such like prefatory Discourses to endear to  
 them their mischief. This is that, which  
 hath occasioned that variety of *Chocolata* in  
*Spain*, so that scarce two houses in *Seville*  
 make it alike. And amongst us the case is  
 worse, since that the mixture of Chymical  
 Oyls (unknown in *Spain*) and several Ma-  
 gisteries, give scope to *Chocolata* makers,  
 and Ladies to practise with, as well as Phy-  
 sicians.

I thought it my duty to give publick no-  
 tice hereof, to the end, that Physicians might  
 be acquainted with the reason of the great  
 discrepancy in *Chocolata*, and that others  
 might



might be cautioned against the following the  
 particular preparations of several persons,  
 who have sophisticated and spoiled one of  
 the most excellent and healthful drinks in the  
 world. It is true, that Physicians say how in  
 alteratives there is little mistake in the dose,  
 or quantity: but this respects their being  
 given once, or but for a short time: and so  
 these alterative *Chocolatas*, being taken but  
 once, or seldom: (if the Ingredients be not  
 violent, nor the body Cacochymical, nor  
 the season sickly) may little endamage the  
 body; and as little amend the sick. But, if they  
 be often taken, or constantly by way of re-  
 paste, it is not to be doubted, but how little  
 error soever be, or can be committed in the  
 dose, a great one will be committed in the  
 continuance, if either the body be health-  
 y, or possessed with a distemper not re-  
 quiring (or repugning to) the additional In-  
 gredients in the *Chocolata*. And several  
 have experienced the consequences of this  
 variety of mixtures, and uncertainty of  
 compounding *Chocolata*: for, having taken  
*Chocolata* of *Antwerp* for Hypochondriacal dis-  
 tempers, by using that of *Spain* they have in-  
 stantly been molested with the Hæmorrhoids.  
 Some, having been troubled with a virulent  
 Gonorrhœa, and debilitated therewith, have  
 took the plain *Cacao*-paste with Nutmeg,  
 Mace, Cinnamon, and Sugar, to advantage:  
 but being indifferently well, or recovered  
 quite in a manner, by drinking of *Chocolata*  
 G made

made up with ordinary Pepper, they have relapsed, or incurred a sharpness of Urine to their great astonishment; they not understanding the difference of *Chocolatas*. Others, having been troubled with the apprehensions of a Consumption, and Cough, and having found benefit by the simple *Chocolata* used by some ordinary sellers of it, meeting with a parcel of what hath been esteemed choice, and rich, by using it they have been damnified in their health, their Rheums have been encreased by a colliquation of the humours, the palate of their mouths being brought down by the keenness of the *Chiles* acting on the *glandules* about the throat; and, their blood being heated, their sleep hath forsaken them. In fine, the issue hath been altogether contrary to their expectation, and perhaps the Physician, who recommended it, hath, as well as his Patient, entertained an ill opinion of the Drink, whereas they ought to blame the *Chocolata* makers, who inform them not of the variety of Ingredients, wherewith it is made.


I come now to represent the virtues of the compound *Chocolata*, the praises whereof I would not have understood of the several rich Compositions not authenticated by experience, nor known to the world, nor those Authors I shall alledge: all they say is to be restrained to the plain *Chocolata* of the *Indies* made up of the Nut, Maiz, *Achiote*, a few *Anise-seeds*, and *Chiles*; pro-

portioned, and suited to the temper of the patient, and given in pure water, or *Atole*, and the last more or less plain, as occasion served ) or of what was not discrepant from it by the mixture of any vehement Spices of the *East-Indies*, but the more mild ones of *America*, as the *Vaynillas*, *Jamaica-pepper*, *Sugar*, and the like ; which being within no unsuitable latitude, I shall report their Characters promiscuously.

*Franciscus Fernandez*, principal Physician in the Kingdom of *Mexico* under *Philip II.* and appointed by him to enquire diligently, and to write of the Natural and medicinal Rarities of that Province, saith of *Cocolata* thus: *Es una de las mas saludables, y necesarias bebidas, de quantas hasta oi estan descubiertas : por que en toda esta bebida no se ha cosa, que sea mala, ni haga danna à la salud, si no todas cordiales, y de mucho provecho, para vi eios ninnos, mugeres preñadas, y gente ociosa : y conviene no beber tras della, ni comer otra cosa, ni hacer exercicio despues de tomarle, si no estar se un rato quieto. Y deve tomarse bien caliente.*

It is one of the most wholesome and precious Drinks, that have been discovered to this day : because in the whole Drink there is not one Ingredient put in, which is either hurtful in it self, or by commixtion ; but all are cordial, and very beneficial to our bodies, whether we be old, or young, great with child, or others accustomed to a



‘ sedentary life. And we ought not to drink  
 ‘ or eat after the taking *Chocolata*; no nor to  
 ‘ use any exercise after it : but to rest for  
 ‘ while after it without stirring. It must be  
 ‘ taken very hot.  This is the Character  
 ‘ of *Chocolata* with *Achiote* in it : for *Fernand*  
*dinandez* did much approve thereof.

Dr. *Juanes de Barrios* speaks thus of it  
*Digo pues, que es menester considerar, que a*  
*principio, que esta bebida se començo à usar, y*  
*hacia de menos simples, y cosas, que el dia de hoy*  
*se haze, por que los Indios antigos de Guatimala*  
*no echavan en el lo que oi echa : y no es de*  
*maravillar, por que en las comidas, y bebidas,*  
*cosas compuestas, el uso, y el tiempo las perfecciona*  
*hasta darles el punto de la salud, y de gusto, que*  
*oi tiene, y esto passa en los usos, hasta darle su*  
*punto.*

‘ I say, it is to be considered, that in the  
 ‘ beginning, when this Drink of *Chocolata*  
 ‘ came first to be used, it was made of fewer  
 ‘ Ingredients, and things, then it is now  
 ‘ made with ; because the antient *Indians* of  
 ‘ *Guatimala* did not put into it them, as now  
 ‘ nor is that to be marvelled at, because in  
 ‘ meats, and drinks, and all manner of com-  
 ‘ positions it is Natural for them not to be  
 ‘ begun, and perfected at once : but this  
 ‘ must be done by time, and practise ; till  
 ‘ they arrive at that height of healthfulness  
 ‘ and taste, which they get at length. And  
 having said this, he adds, *Es comoda pues ella*  
*sola suple el almuerzo, y algunas otras comidas*

er que con ella no es menester, pan, ni carne, ni bebida : y en un momento se haze y saca, lo que no ai en las otras. 'It is good alone to make up a breakfast, and supply other victuals; because, having it, you need no further meat, bread, or drink : and in a moment it is prepared, which is not to be found in others.

Dr. Juanes de Cardenas concludes thus of it: Y digo, que usado con esta advertencia, sera de mucho provecho para la salud, y es bastante para alargar los dias de la vida; por que fuera de que da buen sustento al cuerpo, ajuda a gestar el mal humor, vacuandole por sudor hieses, y orina : y digo otra ves, que entierra ninguna cosa mas necessario, que en las Indias, por que como es humida, y dexativa, andan los cuerpos, los estomagos llenos de flemas, y de superflua humididad, laqual con el calor del Chocolate, se quiesse, y convierte en sangre, lo que no hace el vino : por que realmente antes se azeda, con la flemma, y suele abitar mas.

' And I say, whosoever takes it with the cautions, and directions aforesaid, takes it with much benefit, and it conduceth much to the lengthening of his life; and the reason is, because it yields good nourishment to the body, it helps to digest ill humours, voiding the excrements by sweat, and urine: and I say, it is no where more necessary than in the Indies, which are moist, and apt to create lassitudes, their bodies there being, together with their Stomachs, full

of Phlegm, and superfluous moisture, which  
 are concocted by the heat of *Chocolata* into  
 good Blood; which is an effect beyond what  
 Wine produces: for the Wine doth dege-  
 nerate into sowness, and corrupts toge-  
 ther with the Phlegm, and multiplies in-  
 digestion.

*John de Laet*, Secretary of the *West-Indy*-  
 company in *Holland*, a Man accurate both in  
 the Geography, and natural History of the  
*Indies*, represents it thus: *Chocolate variis*  
*modis componitur pro cuiusque appetitu: de*  
*qua hoc tantum dicemus, quod præclare nutriat;*  
*verum si nimis crebrò & immoderatè sumatur,*  
*debilitat, & alia præterea adfert detrimen-*  
*ta.*—*sc. immodicus usus potionis è Cacao con-*  
*fecta plurimarum infirmitatum & morborum*  
*causa est: quia generat Obstructiones, cor-*  
*rumpit colorem, & inducit Cacochymiam, &*  
*similes pravos effectus.* *Chocolata* is made  
 several ways according to each Man's fan-  
 sie; concerning which we shall only say,  
 that it nourisheth very well; but, if it be  
 used too much, and too often, it begets  
 weakneses, and other indispositions: *sc. the*  
*immoderate use of it multiplies Obstructi-*  
*ons, spoils the Complexion, and introdu-*  
*ces a Cacochymy.*

*Jaques Ampron* in his Natural and Moral  
 History of the *Antilles of America*, (ch. 16.)  
 gives us this Intelligence. *Le Cacao croist en*  
*la province de Guatimala, pres la Neuve-Es-*  
*paga, qui est aussi un fruit tres-renommé en*  
 toute



ute l'Amerique, pour estre le principal Ingredient, qui entre en la composition de la Chicolate, ou Chocolate, d'ont on fait un ouvrage souverain pour fortifier la poitrine, dissiper toutes les humeurs malignes, qui s'y attachent, chasser la gravelle, y tenir le corps cais, y dispos, pour veu qu'on le prene modérément.

'The Cacao grows in the Province of Guatimala, in New-Spain: it is the most renowned Fruit in all America; because it is the principal Ingredient in Chicolate, or Chocolate, which makes a sovereign Beverage to strengthen the Stomach, to dispel all evil Humours, that trouble it, to evacuate the gravel, and to preserve the body fresh, and in full vigour, if it be taken moderately.

Gul Pifo quotes this Passage as from the experience of Ant. de Ledesma, whom he recommends as a credible Author. *Motus enim iis, inquit Ant. de Ledesma, quæ in Indiis fieri solent, cum illuc pervenissem, egrotantiumque domos, acris calore ferventes percurrerem, aliquando haustum aquæ petere solitus, vitales restringendi facies gratiâ, indorum suâsu Chocolatam siti compescenda convenientiorem bibi: sæpiusque id factum, leniebat exinde ardens bibendi desiderium: etiamsi jejunos assumpsissem, Stomachi tamen vires refectas sentiebam. Ex cujus potionis continuato usu alii mecum impingues facti sunt: cum tamen pleraque Ingredientia, excepto Cacacio,*

& Maizio, quòd calida & sicca sint ordin-  
 tertio, ad extenuationem corporis facere vide-  
 antur: sed constat ratio; butyrosæ enim Cacaci-  
 partes pingue reddunt corpus; calidæ verò, quæ  
 confectiorem ingrediuntur, pro vehiculo infer-  
 viunt, quo pinguis ista substantia ad jecur de-  
 feratur, & inde in cæteras dimanet partes  
 tandèmq; ad carneas demùm derivetur.  
 Having a curiosity to see to acquaint my-  
 self with the Rarities of the Indies, at my  
 being there, I went to visit my Patients,  
 and being thirsty I used to call for some  
 water to allay my drought, and defect of  
 vital Spirits; at length by the perswasion  
 of the Indians I drank *Chocolata*, as being  
 more convenient to allay my thirst. And  
 indeed upon the drinking of it I found my  
 vehement desire of drink to leave me; and  
 if I took *Chocolata* in a morning, I found it  
 did much corroborate and refresh my Sto-  
 mach. By the continual use of which  
 drink I, and several with me, became fat;  
 notwithstanding that most of the Ingredi-  
 ents, except *Cacao-nuts*, and *Maiz*, be hot  
 and dry in the third Degree, and seem more  
 ready to extenuate. But the reason is, for  
 that the unctuous and butyrous parts of  
 the *Cacao-nut* do fatten, whilst the other  
 Ingredients serve only as vehicles, to di-  
 stribute those other to the Liver, and thence  
 to the whole body. This is the account he  
 gives from *Anton. de Ledesma*: his own Ob-  
 servation in *Holland* is as follows; *Quia*

*maxima*

maxima pars Ingredientium, excepto Cacacio,  
 & Europam non deferuntur, substitui possunt;  
 & solent vel vulgaria illa Indiæ Orientalis A-  
 romata, vel alia aliqua semina, aut flores cui-  
 usque regioni & individuo convenientia. Quod  
 fieri sæpe in Belgio vidi, & ipse cum vo-  
 cupate virumque refectione hic confectam gu-  
 ravi. Porro non memini aliquem nostratum  
 modo non ferverent illi Hypochondria) ex  
 quotidiano usu ejus potius male habuisse. Mul-  
 tis contra morboris medelam attulisse scio, præ-  
 sertim Hæticis, Catarrhosis, Asthmaticis, qui-  
 busque præcordia languerent. 'Because that  
 few of the Ingredients of *Chocolata*, except  
 the *Cacao-nut*, are brought into Europe,  
 instead of them there are, and may be sub-  
 stituted either those common Spices of the  
 East-Indies, or other Seeds, and Flowers,  
 suitable to the particular condition of each  
 Climate, or individual Person. Which  
 I have often seen done in *Holland*, and I  
 myself have drunk of it with great plea-  
 sure, and refreshment of my Spirits. Nor  
 do I remember, that any of our Country-  
 men [ *Hollanders* ] was ill, or any thing the  
 worse for drinking of *Chocolata* daily; ex-  
 cept he were troubled with Hypochondri-  
 cal heats. But, on the other side, I am sure  
 on my own knowledge, that it hath done  
 much good to many, who were very sickly,  
 and in particular to several troubled with  
 Hætick Fevers, Catarrhs, Asthmas, and  
 Imbecillity of the Stomach, and Vitals.

Be-



Besides the virtues attributed to *Chocolata*, I desire it may be observed what he tells is done in the compounding of it; how, instead of the true *American* Ingredients, other succedaneous ones are employed, viz. the Spicery of the *East-Indies*; betwixt which and those of the *West-Indies* there is no resemblance, the one being milde, the other violent: and against the use of which (even to the total exterminating them) this Author hath writ a Discourse, however that he allow them to be substituted for the other in *Chocolata*. Nor is the commutation of Spice for Spice onely; even other Flowers and Seeds are substituted, and this he knows to be done in *Holland*: which being so, how can any re-

f *Gul. Piso*  
Hist. utr. Ind.  
in Mant. Arom.  
cap. 9.

In *Spain*, to make it purging, or lenitive, they put in *Alexandrian* Roses, as *Ledesma*, and others acknowledge: and what if one should meet with a parcel of such *Chocolata*, who is already too soluble, or to whom it may be pernicious to be so? They who sell *Chocolata* understand not any distinction.

Mr. Gage chap. 16. tells us of it: That where it is so much used, the most, if not all of them, as well in the *Indies*, as in *Spain*, *Italy*, *Flanders*, (which is a cold Country) finde, that it agreeth well with them. True it is, that it is used more in the *Indies*, then in the *European* parts, because there their Stomachs are more apt to faint then here, and a cup of *Chocolatte* well confectioned comforts and strengthens the Stomach. For my self, I must say, I used it twelve years constantly, drinking one cup in the Morning, another yet before Diner, between nine and ten of the Clock; another within an hour or two after Diner, and another between four and five in the afternoon, and when I was purposed to sit up late to Study, I would take another cup about seven or eight at night, which would keep me waking till midnight. And, if by chance I did neglect any of these accustomed hours, I presently found my Stomach fainty. And with this custome I lived twelve years in those parts healthy, without any Obstructions, or Oppilations, not knowing what either Ague or Fever was. Yet I will not dare to regulate by mine own the Bodies of others, nor take upon me the skill of a Physician, to appoint, and define, at what time, and by what Persons it may be used. Only I say, I have known some, that have been the worse  
 “for

"for it, either for drinking it with too  
 "much Sugar, which hath relaxed their  
 "Stomachs, or for drinking it too often: for  
 "certainly, if it be drunk beyond measure,  
 "not only this *Chocolatte*, but all other  
 "Drinks, how innocent soever, may be  
 "hurtfull. And if some have found it op-  
 "pilative, it hath come by the too too  
 "much use of it. As when one drinks o-  
 "vermuch Wine, instead of comforting  
 "and warming himself, he breeds and  
 "nourishes cold Diseases; because Nature  
 "cannot overcome it, nor turn so great a  
 "quantity into good nourishment. So he,  
 "that drinks much *Chocolatte*, which hath  
 "fat parts, cannot make distribution of so  
 "great a quantity to all the parts: and  
 "that part, which remains in the slender  
 "Veins of the Liver, must needs cause Oppi-  
 "lations, and Obstructions. But lastly, to  
 "conclude with this *Indian* drink, I will  
 "add what I have heard Physicians of the *In-*  
 "*dies* say of it, and have seen it by expe-  
 "rience in others (though never could I find  
 "it in my self) that those, that use this *Cho-*  
 "*colatte* much, grow fat, and corpulent  
 "by it: which indeed may seem hard to be-  
 "lieve; for considering, that all the Ingre-  
 "dients, except the *Cacao*, do rather exte-  
 "nuate, then make fat, because they are  
 "hot in the third Degree. And we have  
 "already said, that the Qualities, which do  
 "predominate in the *Cacao*, are cold, and  
 "dry.



dry, which are very unfit to add any substance to the body. Nevertheless it may be answered, that the many unctuous parts, which have been proved to be in the *Cacao*, are those, which pinguefies, and make fat: and the hotter Ingredients of this Composition serve for a guide, or Vehicle, to pass to the Liver, and the other parts, untill they come to the fleshy parts: and there finding a like substance, which is hot, and moist, as is the unctuous part, converting it self into the same substance, it doth augment, and pinguefie. Hereupon he recommends it to the *English*, to be drunk by them: I shall not instance many Testimonies out of him, to evince its general use among the *Indians*; besides what he sayes in the *Chapter* already cited, in his Relations of *Guatemala*, and *Chiapa*, he mentioneth their use of it, more then once: and speaking of *Chiapa* (chap. 15. ) he hath this following Story, which because it evidenceth the Opinion the *Spanish Dames* have of *Chocolatte*, I shall insert at large.

‘ The Women of *Chiapa* pretend much weakness and squeamishness of Stomach, which they say is so great, that they are not able to continue in the Church, whilst a Mass is briefly huddled over, much less whilst a Solemn high-Mass is sung, and a Sermon preached, unless they drink a cup of hot *Chocolatte*, and eat a bit of  
Sweat-

' Sweat-meats to strengthen their Stomachs.  
 ' For this purpose it was much used by them  
 ' to make their Maids bring them to Church  
 ' in the middle of Mass, or Sermon, a cup of  
 ' *Chocolatte*, which could not be done to  
 ' all, or most of them, without a great con-  
 ' fusion, and interrupting both of Mass, and  
 ' Sermon. The Bishop, perceiving this a-  
 ' buse, and having given fair warning for  
 ' the omitting of it, but all without an a-  
 ' mendment, thought fit to fix in writing  
 ' an Excommunication upon the Church-  
 ' doors against all such, as should presume at  
 ' the time of Service to eat or drink with-  
 ' in the Church. This Excommunication  
 ' was taken ill by all, but especially the  
 ' Gentle-women much to heart, who pro-  
 ' tested, if they might not eat or drink in the  
 ' Church, they could not continue in it to  
 ' hear what otherwise they were bound  
 ' unto. The chief of them knowing what  
 ' great friendship there was between the  
 ' Bishop, and the Prior, and my self, came  
 ' to the Prior, and me, desiring us to use all  
 ' means we could with the Bishop for re-  
 ' voking that his Excommunication so hea-  
 ' vily laid upon them, and threatening their  
 ' Souls with damning judgment for the vi-  
 ' olation of it. The good Prior and my self  
 ' laboured all we could, alledging the custome  
 ' of the Country, the weakness of the Sex,  
 ' whom it most concern'd, and also the  
 ' weakness of their Stomachs, the contempt,

' that

that might ensue from them unto his person, and many inconveniencies, which might follow, to the breeding of an uproar in the Church, and in the City, whereof we had some probable conjecture from what already we had heard from some. But none of these would move the Bishop; to which he answered, that he preferred the honour of God, and of his house, before his own life. The women, seeing him so hard to be intreated, began to stomach him the more, and to slight him with scornful and reproachful words; others slighted his Excommunication, drinking in iniquity in the Church, as the Fish doth Water, which caused one day such an uproar in the Cathedral, that many Swords were drawn against the Priests, and Prebends, who attempted to take away from the Maids the cups of *Chocolatte*, which they brought to their Mistresses: who at last seeing, that neither fair nor foul means would prevail with the Bishop, resolved to forsake the Cathedral, where the Bishop's own, and the Prebends eyes must needs be watching over them; and so from that time most of the City betook themselves to the Cloyster-Churches, where by the Nuns and Friars they were not troubled, nor resisted, though fairly counselled to obey the command of the Bishop; whose name now they could not brook, and to whose Prebends they denied now all such

re-



relief and stipend for Masses, which former-  
 ly they had used to bestow upon them, con-  
 ferring them all upon the Friers, who  
 grew rich by the poor impoverish'd Cathed-  
 ral. This lasted not long, but the Bishop  
 began to stomach the Friers, and set up a-  
 nother Excommunication, binding all the  
 City to resort unto their own Cathedral  
 Church, which the Women would not o-  
 bey, but kept their houses for a whole  
 moneth : in which time the Bishop fell dan-  
 gerously sick, and desired to retire himself  
 to the Cloister of the *Dominicans*, for the  
 great confidence he had in the Prior, that  
 he would take care of him in his sickness.  
 Physicians were sent for far and near, who  
 all with a joint opinion agreed, that the  
 Bishop was poysoned, and he himself doubt-  
 ed not of it at his death, praying unto  
 God to forgive those, that had been the  
 cause of it, and to accept of that Sacrifice  
 of his life, which he was willing to offer for  
 the zeal of God's house, and honour. He  
 lay not above a week in the Cloister, and  
 as soon as he was dead, all his body, face,  
 and head did swell, that the least touch  
 upon any part of him caused the skin to  
 break, and cast out white matter, which  
 had corrupted, and overflown all his body.  
 A Gentle-woman, with whom I was well  
 acquainted in the City, who was noted to  
 be somewhat too familiar with one of the  
 Bishop's Pages, was commonly censured to  
 have

have prescribed such a Cup of *Chocolatte* to be ministred by the Page, which poysoned him, who so rigorously had forbidden *Chocolatte* to be drunk in the Church. My self heard this Gentle-woman say of the Deceased Bishop, that she thought few grieved for his Death ; and that the Women had no reason to grieve for him, and that she judged he being such an Enemy to *Chocolatte* in the Church, that, which he had drunk at home in his house, had not agreed with his Body. And it became afterwards a Proverb in that Country, *Beware of the Chocolatte of Chiapa*. Which made me so cautious, that I would not drink afterwards in any house, where I had not very great satisfaction of the whole Family.

A certain *Spanish Physician* of *Sevil*, who made it his peculiar inquiry to search into the nature of *Chocolata*, as he doth on every occasion shew himself *extraordinarily* *learned*, and to have consulted all the *publick Discourses* and *private Manuscripts* about it, so he manifests a great regard to the Testimony of *Experience*, which he allows to be so favourable for *Chocolata*, that there is not one, who doth drink it, and doth not feel himself to be manifestly refreshed, and strengthened, as well as delighted by it : and that, whereas none hath been known to live above seven dayes by drinking Wine alone, one may live moneths,

H

and

and years, using nothing but *Chocolata*. In fine, he himself saw a Childe weaned, which could not be brought by any Artifice to take any food, and for four moneths space he was preserved alive by giving him *Chocolata* only, mixing now and then some crumbs of bread therewith. So powerfull a virtue hath it to nourish, and strengthen. Nor doth he allow it for food alone, and the preservation of Life, but medicinally, as a thing, that is advantageous to health; for he gives this Character to a preparation of *Chocolata*, which is almost the same with what I made for His Majesty. *Antiquam compositionem Chocolatis Indiae & Hispaniae enarrare, hoc tempore nullius fructus erit; quoniam illud habuit, ut ad ultimam perfectionem deveniret. (i. e.)* 'It is not worth while to recount the antient wayes of compounding *Chocolata*; because this proposed is arrived at its height, and last degree of perfection. *Hæc est omnium potionum pretiosior potio: hæc in commodis salutis omnes superat, illarum nempe, quæ in hodiernam diem aut voluptas invexit, aut decurrentium seculorum series alternata conspexit; quia nec in ea, dum in actum potioniæ reducitur, nec aliquo simplicium, ante ejus ingressum, vitæ defuit necessarium, neque voluptati, quod non valeat illecebrâ appetitum allicere: sunt enim alia alimento gratissima, alia Aromaticâ virtute roborantia, alia cordi auxiliantia, dum Nectar vivificum instaurant,*



seu spiritus dissipant malignos, aut naturales  
 robustæ mixtionis. producant: sunt & omnia  
 vite longius producenda aptissima: quoniam  
 Chocolate ultimâ qualitate, quæ resultat ex  
 fermentatione, at theriaca, calorem nati-  
 vum roborat, & promptâ instauratione influ-  
 entem (ob facilem conversionem) multum &  
 audabilem sanguinem gignit. Ob substantiæ  
 tenuitatem, & fermentationis efficaciam, in-  
 dissolubiles & robustos spiritus, immortalis la-  
 ori & studiorum collimationi aptissimos, fa-  
 cultates præcipuas, & temperamenti mixtione,  
 & Aromaticâ virtute in vigore conservat:  
 moderato calore dum concoquitur, flatus tur-  
 bantes dissipat, ac penetratione aperienti ob-  
 struções aperit, menses provocat, & inter-  
 lia ventrem plerisque lenit; & super omnia  
 cibaria vires præsentaneæ & promptissimè re-  
 cit, quod res aliæ essentiâ potabiles non ita  
 rompiè agunt: quo videtur singulari diffe-  
 rentiâ ob aliis differre. 'This is the most  
 pretious Drink of Drinks; this excels  
 all others in advantages for our health,  
 which either Time by a long succession of  
 years, or encrease of Luxury and Pleasure  
 to this day hath acquainted us with: be-  
 cause neither in the *Chocolata* it self being  
 made into a Drink, no nor in any In-  
 gredient thereof, is there any thing want-  
 ing, that is necessary for the Life, or de-  
 , against which my Authour protests; but of what is made  
 p, as I prepared that for His Majesty, which varied little from  
 is way.

This is to be  
 understood  
 not of the or-  
 dinary Spa-  
 nish Chocola-

'light of Man, and so to invite him to use  
 'it. Some things in it are most pleasant nou-  
 'rishment; others strengthen by their Aro-  
 'matical virtue; others are Cordial, and re-  
 'vive the vital Balsame, or Nectar, either  
 'dissipating evil and burthenfome Spirits, or  
 'producing new ones of a durable nature.  
 'In fine, all are transcendently qualifed to

■ To obtain this then, it must be  
 kept, and fermented; and conse-  
 quently neither what is made in-  
 to Cakes, (which will not keep,  
 nor ferment in so small quantities)  
 nor what is made in Powder,  
 and mix'd with Spicery, as it is  
 prepared to drink; nor what is  
 made alone into Paste, and kept,  
 and spiced in the time it is to be  
 used; can be approved of, since  
 the latter wants the benefit of  
 fermenting with the Spicery, and  
 the Paste alone grows *offtate*, and  
*insipid*.

'prolong life; because Cho-  
 'colata by a new quality  
 'arising to the Composition  
 'on through fermentati-  
 'on (as happens in Trea-  
 'cle) strengthens the na-  
 'tural heat in each part,  
 'and encreaseth that,  
 'which continually in-  
 'flows, and influenceth it,  
 'begetting by a speedy  
 'and easie transmutation  
 'much and good Blood :  
 'by the tenuity of its parts, and efficacious  
 'fermentation, it begets strong and indifi-  
 'pable Spirits, and so enables Men vigo-  
 'rously to prosecute their Studies, and tedi-  
 'ous exercises of the Brain, it strengthens  
 'and preserves in full vigour the princi-  
 'pal faculties in men by the exquisiteness  
 'of its temperament, and Aromatical pow-  
 'er : being digested, with its moderate heat  
 'it dispells Winde; and by its penetrancy,  
 'and opening quality, it removes Obstruc-  
 'tions, provoketh the monethly evacuations  
 in

in Women, and, amongst other qualities, it generally preserves the body <sup>x</sup> soluble: and it doth more speedily and readily refresh and invigorate the bodily strength, then any other sustenance whatever, no other potable liquours [which yet do most quickly nourish] producing so speedy and sensible an effect: whereby it seems to be peculiarly differenced from all other Viands.

<sup>x</sup> This is to be understood only of such *Chocolata*, as his was, being rich of the *Cacao*, and moderately spiced, & that with milde Spices: yet did he put in a good quantity of *Cinnamon*.

## CHAP. VI.

*How to make use of the Chocolata by preparing it into Drink.*

I Think I have sufficiently (at least according to my present leisure, and the unsuppliable want of my own Library, and Collections) manifested the effects of *Chocolata*; I shall now treat of the way of preparing it into Drink, when any hath occasion to use it. And because that the Composition it self is of the *Indian* discovery, as I have hitherto still directed my inquiries by searching into their Usages and Opinions concerning the several Ingredients, so I shall now begin with a recital of the several ways they use to prepare it into Drink: and for this I have the most accurate account from <sup>a</sup> *Mr. Gage*, a Chap. 16. (who yet seems to transcribe *Ledesma*) whom I shall therefore transcribe, with



such Animadversions, as may seem pertinent.

*The manner of Drinking it is divers. The one ( being the way, which is used in Mexico ) is to take it hot with Atolle, dissolving a Tablet in hot Water, and then Stirring it, and beating it in the Cup, where it is to be drunk, with a Molinet, and, when it is well Stirred to a scum, or froth, then to fill the Cup with hot Atolle, and so drink it sup by sup.*

This way of preparing it may seem ( since it is the way of Mexico ) to have been the way, that Motezuma treated Bernaldus del Castillo with, when he caused to be brought forth *jarros grandes hechos de buen Cacao, con su espuma*, 'great jars made with good Cacao, 'with its froth. It is not to be questioned, but that the pure Cacao-paste, well dissolved in hot water, and long, and violently agitated with a Molinet, will raise a considerable ( but not lasting ) Froth, not inferiour to what, with less agitation, is seen where Eggs entire, or Yolks alone, are put  
in ;

in: much more perhaps it may froth, if that Paste had *Pochol* or *Paniso* grains mixed with it; or, if being well milled before, it were a second time milled upon the commixture of the *Atole*: for the *Maiz* flower would make it froth much; and it is from the commixture of *Maiz*, or *Bean-flower*, (or perhaps some other substitute) that some *Chocolata* doth now froth more then others; though the difference in the milling likewise produce a variety. I have already explicated what *Atole* is, in the beginning, and so shall not repeat it; but onely add, that, from this way of the *Indians* using it, our Physicians may order it to be drunk with streined Water-gruel, Almond-milk, or *cremore ptisanæ*, or any other mixture they please, that is more, or less nourishing, as they please; ordering the *Chocolata* according to the aforesaid Method: concerning which Dr. *Juanes de Barrios* gives this admonition, *Para hombres y mugeres Sanguineos no se tome con Atole, por que aumenta la sangre; sino con agua, poco anis, Chile, y acucar, y mingunas especies Aromaticas, ni cosas de olor. Y para los Flegmaticos se haga con todos los Ingredientes, que avemos dicho, o con mas especies de lo ordinario, y se tome mui caliente. Y en los Melancholicos, que se haga sin Chile, poco anis, y con coras de buen olor, y que se tome tibio.*

For men and women of a Sanguine Complexion, it is not to be taken with *Atole*, be-

' because it multiplyeth Blood in the body;  
 ' but with Water, a little Anise-seeds, *Chiles*, and Sugar, but no Spicery is to be put in,  
 ' nor sweet-scented things, for such persons.  
 ' But, for the Phlegmatick, let it be made  
 ' with all the Ingredients used in the *Indies*,  
 ' or with a greater quantity of Spices, then  
 ' is ordinary, and let it be taken very hot.  
 ' And, for the Melancholy persons, see it be  
 ' made without *Chiles*, with a few Anise-  
 ' seeds, and with Ingredients of a sweet smell,  
 ' and taking it luke-warm.

Which Caution may not only direct us as  
 to *Atole*, which is not to be made, or used  
 in *England*; but illustrates and confirms an  
 Animadversion of mine formerly laid down :  
 viz. that according to the several tempers and  
 distempers of persons there ought to be framed  
 variety of *Chocolata*; and that to be given  
 variously, as the discreet Physician shall  
 propose; and this is agreeable (you see) to  
 the procedure of the *Indies*.

*Another way of drinking Choco-  
 latte is, that the Chocolatte, being  
 dissolved with cold water, and stir-  
 red with the Molinet, and the scum  
 taken off, and put into another vessel,  
 the remainder be set on the fire, with*  
 as



as much Sugar, as will sweeten it,  
and when it is warm, then to poure  
on the scum, which was taken of  
before, and so drink it.

I understand not the reason of this procedure ; unless it be for ornament sake : it looking more pleasantly being thus ordered, then if the water were hot, and milled to a froth with *Chocolata*, and so drunk. It is certain, yet strange, that the *Cacao*-paste, being milled well with cold water, will froth as much, and yield as plentiful a scum, or cream upon settling, as it will do if it were milled with hot water : and I have shewed how that cream is fat, and the water also is fatty (though cold) in which it is milled, but it comes not to that red colour, which the other hath, which is prepared hot. This scum being taken of, and the rest heated, and put to it (pouring it on high) makes it look more pleasantly on the top, then if it were a bare solution of the *Cacao*-paste, which will dissolve in it, so as not to precipitate any settling almost, whilest it is stirred) and the *Cacao*-paste which remains (after the froth is taken of) to be heated dissolves sufficiently in the water by mere stirring, without milling.

*Besides*

Besides these ways, there is another way (which is much used in the Island of Santo Domingo) which is to put the Chocolate into a Pipkin with a little water, and to let it boil well, till it be dissolved, and then to put in sufficient Water and Sugar, according to the quantity of the Chocolate, and then to boil it again untill there comes an oil scum on it, and then to drink it.

This way I was at first much pleased with, and upon tryal I found, that it did more perfectly dissolve the Nutt then any, and reduced it into a perfect fatty broth, which did not at all offend my Stomach: but notwithstanding that it did not offend mine, yet I was very pleasing, and more rightly satisfied, then any other way; but I observed, that the Spice had a more vehement heat, and taste, then otherwise: which happened either because boiling added a sharpness to them; or that the compages or bodies of the Composition was more laxed, then otherwise: for not being well mill'd, it did not seem so well commix'd, as otherwise.

But the most ordinary way is, to warm the water very hot, and then to poure out half the cup-full, that you mean to drink; and to put into it a Tablet, or two, or as much, as will thicken reasonably the water, and then grind it well with a Molinet, and when it is well ground, and risen well to a scum, to fill up the cup with hot water, and to drink it by sups (having sweetened it with Sugar) and to eat it with a little Conserve, or Maple-syrup, steeped into the Chocollate.

Of this last way Mr. Gage saith not only, that it is the most used, but that certainly it doth no harm, and he recommends it to the practise of the English: he gives no reason why the Chocollata may not be milled with all, but a part of the hot water; nor do we apprehend any, except that the vessel, in which it is made, may be so little, as that it may not be able to contain the whole liquor to be milled, and prepared: for it must be done in a pretty deep vessel, that it may have



have room to dash about the sides, without flying out, or running over, as it is mill'd. Otherwise I think no man will believe, that there can be so equal and due commixture in the *Chocolata-drink*, if one half only be mill'd, and the other half of water poured to it; as if the whole were milled together: and consequently, it cannot be so good.

Wherefore the way now used at *Seville* seems more rational, whereby it is thus made. The *Chocolata-cake* in a due proportion (that is, in my *Chocolata*, one ounce of *Paste* two ounces of *Sugar*, and eight of *Water* is dissolved in hot water; it never boiling at the fire after the *Chocolata* is put in; be-

<sup>b</sup> I am sure, that the simple *Cacao-paste* sours not by boiling long, and several times; no not my compound *Chocolata*: but it is possible, that the *Vaynillas*, *Alexandrian Roses*, or some other Ingredient in *Spain* may upon boiling give the drink a sourish taste. Or it may subvert the Stomach by becoming too oily, or unctuous, as I observed before.

cause (say they) it will by boiling grow <sup>b</sup> sourish, or be so depraved as to subvert the Stomach. They it is well milled, that it may grow frothy, and fatty: then it is poured out into *Xicharas*, or *Cups* and so drunk hot. They give a special Caution that after it hath bee-

once milled, if it cool again, it is not to be heated and mill'd a second time, and drunk. Because, they say, it corrupts, and sours: and herein they avouch their Experience, and desire no reason may be urged against it. This Caution, being give-

concerning the best *Spanish Chocolata*, and which most resembleth mine, I could not omit: and I am sure either it is not true, though we finde a difference in broths, when twice heated) or it must arise from some ingredient ( I suppose the *Vaynillas* ) and not from the *Cacao*, the *simple paste* whereof I took and mill'd, and kept it several days, and heated it again; and it was neither *nauseous*, nor offensive to my Stomach: and I kept it three days longer, and then heated it, milled it, and tasted it, and it varied not its relish, but was *inoffensive*, and free from *sourishness*. I boiled some of mine, and drunk it *cold*, unmilled, without annoyance: and I know a *Lady*, that with success boiled it twice. Here in *England* we are not content with the plain *Spanish* way of mixing *Chocolata* with water: but they either use milk alone; or *half milk*, and half *conduit-water*; or else thicken the water ( if they mix no milk with it ) with *one or more eggs* put in entire, or *yolks* only into the water, or where milk is mingled with the water. In which way, as it is sold in the *chocolata-houses*, there are these inconveniencies: if it be done with milk, it is natural for milk, being *hot*, and *standing so*, to cast up a *Scum*; and, if it cool, it creams: so that, if the *Chocolata* be kept after it is milled, and not immediatly drunk, either upon our second milling it you must cast away the *scum* ( or *cream*, if it stand *cold* ) or mill it

it into the Drink : the former course weakens it, by casting away also the *flower*, or *cream* of the *Chocolata* ; and the latter renders it unpleasant. And as to the mixture of eggs, if they be put in with the *yolks*, and *whites*, and suffered to stand, the *whites* will harden, and disgrace the *Chocolata*; but if only the *yolks* be put in, and well *milled*, I have tryed them so, by not only letting the *Chocolata* stand *hot* before the *fire*, but even to *boil it again*, and *mill it*, and let it again stand for several hours before the *fire*, and I have not perceived it to vary the *taste*, or to *embody* into any thicker consistence then before it had; only I observed, that it did not yield so much *cream*, (or scarce any) on the top, nor such visible discoveries of *fattiness*, as it would have done otherwise: and the settling at the bottom (which upon refrigeration seemed as great, as if no egg had been mix'd with it, though the decoction or water were thicker much by reason of the additional *yolk*) did not carry so much *unctuousness*, being tasted, as did those other settlements, which I had tryed, without commixing any egg with them, either only once *mill*ing, or *boiling* them also. From whence I leave it to the more *mature consideration* of others to determine, whether the commixture of an *egg* be good, since it seems to hinder the dissolution of the *Cacao* into *oily* or *unctuous parts*; and whether it may not produce



[III]

ance a like effect in the *Stomach*, as it does  
to the *Pipkin*, ( *Concoction* being but a sort of  
*Relaxation* ) and so impede the nourishment  
expected from the *Chocolata*: it being of-  
entimes as true,

*Quæ prodesse queant singula, juncta nocent :*

as that other Saying,

*Et quæ non prosunt singula, juncta juvant.*

But these *Experiments* were made with the  
simple paste of the *Cacao-nut*, and not with  
compound *Chocolata*.

In *Spain* to *Cholerick* constitutions, and  
where there is any extraordinary heat, or  
inflammation of the *Liver*, or *Kidnies*, I find,  
that there is a more milde and temperate  
way of *Chocolata*, then is usual, prepared :  
else the usual one is diluted with *En-  
ive* or *Scorsonera* water : and where *Phlegm*  
and *Crudities* abound, there it is prescribed  
with the water of *Radishes*, *Fennel*, or *Car-  
nus Benedictus*, which ( say they, though  
some in *England* protest against it ) vary not  
the taste, but encrease its virtue. It is gi-  
ven thus by way of alteration, as are other  
alteratives, general Medicines being pre-  
scribed; and every sixth day there is either  
another gentle purge given, or the *Chocolata*  
then dissolved in an infusion of *Mecboa-  
n*, or the like. In the *Winter* it is drunk  
hot

hot ( being given to open Obstructions ) and in the Spring it is drunk in a more moderate temper : after it they prescribe Exercise for an hour, or half an hour, which must be moderate: and this course is continued thirty, or at least twenty days, or indefinitely till they be well: which they will soon know, the pale recovering their colour and the short-breathed their wind; the Urine amending its colour, and consistence: and all Symptoms either mitigating, or ceasing. But if the Obstructions be inveterate, and too difficult to be overcome by this method, then they prescribe every day half a dram of Rhubarb trochiscated to be mix'd with the Chocolate, or of Madder-root, or a dram of Steel prepared. And this is the Spanish practise, and from which Anton. Colmenero de Ledesma varyeth not much; as he, that shall compare him with my Intelligence, will easily see

There is another way of drinking Chocolate cold, which the Indians use at Feasts, to refresh themselves, as it is made after this manner. The Chocolate ( which is made with none, or very few Ingredients ) being dissolved in cold water with the Moli-

net.

net, they take off the Scum, or crassie  
part, which riseth in great quan-  
tity, especially when the Cacao is  
older, and more putrefied: the  
Scum they lay aside in a little dish  
by it self, and then put Sugar into  
that part, whence the Scum was ta-  
ken, and then poure it from on  
high into the Scum, and so drink it  
cold. And this Drink is so cold,  
that it agreeth not with all Mens  
stomachs: for by Experience it  
hath been found, that it doth hurt,  
causing pains in the Stomach,  
specially to Women.

should except against this way, not for the  
coldness only, (though *c. Piso* and *Anton.* *c. Gul. Piso in*  
*Imenero de Ledesma* agree with *Mr. Gage* *Mant. Aro-*  
the noxious effects of *Chocolata* drunk *mar. cap. 18.*  
(as cold) but because of its nauseousness:  
I found it to offend my Stomach with  
coldness, more then if it had been pure  
ter; and the nauseousness was insupport-  
e, which did arise from the fat of the  
it dissolving in the water, and rendring



it as odious, as would be fat Mutton-broth drunk cold. The *Spaniards* drink not the simple *Cacao-paste* dissolved in cold water, as do the *Indians* : but as that Nation is inclined to drink *Snow*, *Snow-water*, and *Drinks refrigerated in Snow* ( which are more authenticated by custom, and idiosyncrasie, the reason ) so they refrigerate and freeze the solution of *Chocolata*, richly Aromatified with *Snow* : and so the Gallants, especially the Ladies, drink it; reputing the *Spice*

I caused some *Chocolata* of my ordinary sort to be boiled, and some I milled, the other part I did not; and drinking both of them cold, I did not finde any disagreement, but a pleasingness to my taste: yet was that unmilled very fatty.

sufficient corrective of the coldness, and nauseousness of it. I do believe, that it is not this way so nauseous, as the *Indian* way; but I cannot believe wholefom, since so cold Drinks ( before the heat

of the *Spice* be actuated by the Stomach do often make a fatal and irrecoverable impression upon the Stomach it self, and Lung and Heart, and Womb; and is generally ( not universally ) condemned even as poison by the *Spanish Physicians*, however their authority is suspended by a contrapraetise received in *Madrid*, and *Sevil*.

“ As to the time of taking it, it is held  
 “ ( by the *Spaniards* ) the most fit time to take  
 “ it in the Morning, and Supper being digested, and the Body fresh, and the Stomach empty to receive it; ( or else it may  
 “ be taken in the morning not upon the

first stirring, and before any repaste, but after the taking of some other sustenance in a moderate quantity: (for then it seems most acceptable to the Stomach, and most necessary for the undergoing the employments of the subsequent day. Besides crude, and indigested, or depraved reliques of the last night's meal are hereby either <sup>d</sup> reduced under a second concoction

for the use of the body, or outed the Stomach for its ease. The *Chocolata* it self also is much more easily concocted, and distributed, whilst there is not any thing else in the Stomach to delay, or retard its progress into the Veins, and *vasa chyliifera*: its influence is then more sensible to dissipate any

noxious Vapours. Which Effects are to

be supposed to follow, if it be taken with moderation; being neither of too thick a consistence, nor too large a quantity. Some there are, who have taken it usually, instead of Wine [*which is their table-drink in Spain*] at Diner, and Supper: but this hath not been sufficiently experimented, that it may be vulgarly per-

<sup>d</sup> It is an indubitable Truth, that after digestion, and descent of the Chyle into the guts, there are still some remainders in the Stomach; which by long fasting, or particular indisposition, do corrupt, and grow acid: such, continuing so, are not to be wrought on; but, if they be diluted by the mixture of warm *Chocolata*, Nature will then concoct it, as it doth Spirit of *Vitriol*, or the like with Julep.

<sup>e</sup> If it be too thick, they say, it will obstruct: if it be too thin, it yields neither delight, nor nourishment considerable.

"mitted; since perhaps custom, or individual  
 "constitution, or a moderation in Diet,  
 ( *which helps all errours, but is not vul-*  
*garly to be presumed on* ) "may render it  
 "only innoxious to them. But it is certain,  
 "that it may freely be taken four or five  
 "hours after Dinner, Concoction being then  
 "finished, and the meat not only dissolved  
 "in, but distributed in great part out of the  
 "Stomach. And so it will enable them to  
 "persist till night, or ( *if they eat no sup-*  
*pers* ) "the day following. Nor need any  
 "fear, that being taken at such a time as  
 "four or five a clock, it will prejudice his  
 "sleep the night following: for such accidents

f Mr. Gage ( Ch. 16. ) saith,  
 that, when he purposed to sit up  
 late to study, he would take a  
 cup about seven or eight a clock  
 at night, which would keep him  
 waking till midnight. I took it  
 my self twice at ten a clock at  
 night, and I think it did render  
 me less sleepy then ordinary;  
 though I am usually one of little  
 sleep.

"befall only those, who  
 "take it <sup>f</sup> late at night,  
 "and not so early, as it is  
 "here recommended: or  
 "where the *Chocolata* is  
 "too hot of Spices, so as  
 "that it begets too great  
 "an agitation and fervour  
 "in the blood; which may  
 "befall any body: or  
 "where the body is of so  
 "hot and Cholerick a temper, that it can-  
 "not bear *Chocolata* moderately spiced,  
 "or compounded with milde Spices. But  
 "in Phlegmaticque Persons, and such as are  
 "aged, it is observed, that it causeth them  
 "to rest excellently well.

"They further caution us, If we be dry,  
 "or



or in Summer, not to drink *Chocolata* till we have first drunk some cold water, which is instead of Beer to them in *Spain*, when they drink not Wine ] lest *Chocolata* as it is now compounded with *Spices*, and *Sugar* ] “ should produce, or augment our thirst. And, after we have drunk *Chocolata*, they strictly prohibit all manner of Drink; for, whether Water or Wine be drunk after it, there do frequently ensue very dangerous Diseases, and Symptoms. A very observing *Spanish Physician* assures us upon his own knowledg, some have been thereby immediatly seised with a vertiginous indisposition, and giddiness; & others with a *Cholera*; very many have fallen speechless. It is also prohibited by them as hurtfull in Fevers, [ because prepared otherwise then by the *Indians* ] “ as augmenting the Disease. So they prohibit it in Fluxes, by reason of its lubricity to encrease the already excessive laxity of the guts: yet they confess it hath sometimes been beneficial in Lienteries.

But, in conclusion, my Author tells us, that “ It is a certain thing, that however these Cautions may seem rational, yet it is not observable, how the drinking of *Chocolata* can be reduced under any certain model of Rules in the taking it; since it is become so universally used [ in *Spain* ]

g I have been ascertained also of these accidents by one, who lived many years in *Portugal*, and made *Chocolata* there.

“ that

" that it is taken at all hours, and times; it  
 " is the delight of the Masters, the sustenance  
 " of Families, and the grand entertainment  
 " of Friends: *quia jam sine illo vitam nesci-*  
 " *unt*; because they know not how to live  
 " without it.

There is another way of taking it made  
 into *Lozenges*, or shaped into *Almonds*, with  
 Orange-flower water, Amber-grise, Sugar,  
 and the white of an Egg, gum-dragant,  
 and perhaps some other Ingredients. As  
 to the former way of making up *Chocolata*  
 into *Lozenges*, or Cakes, and so eating it,  
 my *Spanish* Author gives it this Character,  
 (which indeed extends to both sorts) *man-*  
*dendo, aut in buccellis comedere, insuperabiles*  
*obstructiones creat, seu dum fiunt bellaria cum*  
*saccharo, aut in pasta comeditur*: 'To eat  
 ' *Chocolata* in Cakes, or otherwise by bits,  
 ' begets insuperable Obstructions; that is, if  
 ' you eat it made up into Confects or Sweet-  
 ' meats with Sugar, or in Paste. I cannot,  
 I must confess, pass so general a sentence on  
*Chocolata*: I suppose the Opinion of it is to  
 be regulated by the goodness of the *Choco-*  
*lata* that is eaten; and that I leave to be ex-  
 amined by my precedent Discourse about  
 the variety thereof. That the *Cacao-nut*  
 is nourishing, there is no doubt of it; that  
 the simple paste may innocently be eaten, I  
 think too: but that *Chocolata* made up with  
 so great a proportion of Sugar, and with such  
*Spices, Oils, and Essences*, as are used (all, or  
 some

ome of them ) in the *Chocolata* designed for  
 hat use, I believe no *Physician* will promi-  
 uously, and without distinction of Persons,  
 llow it, but who hath another Opinion of  
 ugar, and *Spicery* ( except what I have re-  
 commended ) and *Chymical Oils*, and *Essences*,  
 hen I have in this case, or many other. It  
 s true, *Hippocrates* saith, *It is easier to be*  
*nourished with Drinks, then solid meat*; and  
 hat *They, who have need to be quickly refresh-*  
*d, must be dieted with Drinks, or potable li-*  
*quours*: but these two Sayings make not for  
 he giving of *Chocolata* in *Paste*, or *Confects*,  
 o more then his recommending in  
 undry cases *Ptisanes* of *Barley* doth en-  
 ourage us to give to weak *Stomachs* *barley*  
*read*: or, because *Almond-milk* is good,  
 herefore to recommend the *Maccaroni* of *I-*  
*aly* so condemned by <sup>b</sup> *Fienus*. Should I say <sup>h</sup> *Fienus* De  
 sever so much for the one or other way, <sup>flat.</sup>  
 and evince them to be better, then any pre-  
 parations of *Almonds*, and *Pistachias*; as I  
 believe them to be: yet would they still  
 be *Sweet-meats*, and consequently more *used*,  
 hen approved. And the *Obstructiveness* of  
 them, how inveterate and obstinate soever,  
 I must say  
 this in favour  
 of the *Cacao*,  
 above *Almond*  
 and *Pista-*  
*hia-sweet-meats*; that I cannot take any *Sugar'd Drinks*, or *Sweet-*  
*meats* without a sensible *disorder* of my blood: but I never found,  
 hat *Chocolata*, though drunk with a double proportion of *Sugar*, be-  
 sides what is in the *Paste*, or *Cake*, did ever offend me; but re-  
 fresh and comfort me very much: nor did the *Chocolata-Cake* eaten  
 ever offend me, though I never found it to strengthen, or satisfie  
 much, no nor the *Nuts* when eaten dry; which is a strange effect,  
 yet perceivable to any that *drink*, and eat it, or the *Nuts*.



arises not from any particular badness of the *Cacao-nut*, but from the general unwholesomeness of all *Confects*, and *Sweet-meats*. And this I shall not now make out by *Arguments*, (though it might easily be done) but by the instance given by Dr. Hart in his *Diet of the diseased* (lib. 1. cap. 22) and it is as follows. I remember, living in Paris 1607, a young Clerk, living with a Lawyer in the City, procured a false key for the *Closet*, where his *Mistresses Sweet-meats* lay: and for many days together continued thus to feast with her *Sweet-meats*, and loaf-sugar (whereof there was no small store) untill at length he became so pale in Colour, lean in Body, and withall so feeble, that he was scarce able to stand on his legs; insomuch that the skilfullest Physicians of the City, with the best means they could use, had much ado to restore him to his former health again. A little time will shew whether the use of these new Cakes will be as prejudicial to health, and productive of *Consumptions*, and other weakneses of the back, or *Hypochondria*, in our *English Women*; as the rest of *Sweet-meats* have been: for it is the general opinion, that the multitude of *Sweet-meats* used by our *Ladies* is the occasion of our aforesaid Diseases, so much increasing. I shall not now enquire into the verity of the Opinion: for there are instances of Countries, in which *Sweet-meats* are much more used then here amongst us, and yet they are not so molested, as we, with those Distempers.

empers. I say then, that the *ill effects* of *sweet-meats* do but accidentally follow upon their use, and therefore we ought to examine those circumstances, that occasion this variety of effects: which I have not leisure to do, nor that opportunity, which I expect amidst the *Sugar-works* of the *West Indies*.

## CHAP. VI.

*The Author's judgment concerning Chocolata summarily delivered, as to its effects, and the ways of using it.*

It were easie to evidence the excellency of *warm Drinks* above those, that are taken *cold*, if I had leisure: for certainly, if the use of *Drink* be to allay thirst, to moisten the body, and to distribute or help the digestion of the food we take; it is not to be doubted, but *hot Drinks* perform all this better then *cold*: and for the evincing of this to each point, both Reason and Experience might be alledged. For the practise of the *antient Romans* favours much *hot Drinks*; as every man knows; and the *modern tryals* of *Campanella*, and a *Gassendus*, as well as *Antonius Persius*, doth manifest, that all the *aforesaid ends* may be attained

a Gassendus  
Phys. Sect. 3:  
l. 5. c. 1. Si ha-  
beat ratio

letudinis, docet experientia quàm saepe gelidæ potus nocet, quàm  
inquam potus calefactæ.

by

by warm or *hot Drinks*: and particularly, as to the *quenching of thirst*, it is undeniable, that *hot Drink* not only *quenches it at present*, but *prevents its return*, better than *cold*; and yields *as much delight*, maugre the assertion of *Pliny*, that *all Animals desire cold Drink*: and that *musty Definition of Aristotelian Philosophy*, that *Sitis est appetitus frigidi & humidi*: *Thirst is a desire of cold and moisture*; which is notoriously false, disproved by the Arguments and trial of *Gassendus*, as well as others. Yea *Drinks*, that are taken *hot*, surpass themselves in their effects, compared to what they do when taken *cold*. Thus *hot water drunk daily* before *Dinner* cures the *Stone*, and *Gravel* in the *Reins*, as *Zecchini* affirms, and *Trallianus*: and the benefit others have found by it doth manifest. *Wine drunk hot* doth much more corroborate a weak *Stomach*, then when drunk *cold*; as *c Costius* avows, and hath been tryed by several in *Consumptions*, to my knowledg. I shall not speak concerning the *Decoctions of China-root, Sarsa-Parilla, and Guajacum*, of which the same Assertion may be made. I have not leisure to insist hereon, nor the conveniency of my *Library* to aid my memory with citations at present. I suppose then, that, in general, *Chocolata* is rather advantaged, then prejudiced, by being an *hot Drink*.

It is of an *unquestionable nourishment*: for, as it is the chief sustenance of the *Spanish Indies*,

b Trallian. l. 9.  
c. 4, 5.

c Costius De  
pne in morb.  
lib. 1. cap. 52.



edies; this cannot be colourably denyed :  
 and though Pope Urban the Eighth did  
 declare it in discourse, and by a solemn Bull,  
 that it was meerly a Drink, and so consistent  
 with the Fasts of the Church; yet few believe  
 it infallible therein, who understand the  
 Drink : and the Carmelite-Friers, by way  
 of Mortification, have a Statute amongst  
 them in the Indies, that they will drink no  
 Chocolata. You will not finde Mr. Gage to  
 make a journey, but he makes it an impor-  
 tant care to provide Chocolata : nor is he  
 singular therein; but follows the general  
 example of the Spaniards. Whether he is  
 treated publickly. by Towns, or privately by  
 particular Persons, his entertainment and  
 affection is Chocolata : agreeable to what  
 Acosta says, <sup>d</sup> It is a Drink very much esteemed  
 among the Indians, wherewith they feast No-  
 tably, as they pass thorough their Country.  
 The Spaniards, both Men, and Women, that  
 are accustomed to the Country, are very greedy  
 of it. The Nut is one of the richest commo-  
 dities of the <sup>e</sup> West-Indies: and however  
 some disallow the use of it raw, or roasted,  
 others do repute it less obstructive, and  
 more wholsom then they judge it to be.  
 The Nut is of an exceeding fatty substance,  
 being viewed in a Microscope; in a Jamaica-  
 Nut I could observe large and spreading  
 Veins or streaks of white fat, which I sup-  
 pose to make the fat, which appears upon  
 digesting, or boiling it without mulling it.  
 Examining

Lib. 4. cap.  
 22.

Acosta lib. 4.  
 cap. 22. Gage  
 chap. 16. Ben-  
 zon. lib. 2.

Examining the *Caraca-nut* by a *Microscope* I could observe nothing of *fatty veins*, or *streaks*; yet is not that *Nut* leaner, then the other: I know not whether I ought to call it *oyl*, or *fat*; and for either appellation may be questioned: but, give it what name you please, I dare avow, that one ounce of *Cacao-paste* well *digested* will yield more fat, then a pound of fat *Beef*, or *Mutton* even when stewed. Besides the fat, which never so separates from the other parts, as to lose totally its bitterness, whereby it is preserved agreeable, and not *nauseous* to the *Stomach*, there is a red part, which principally contains the bitter parts: it hath been generally reputed as an *earthy* and *obstructive* thing; but, without doubt, it is as necessary, as any part of the *Nut*, and as little to be rejected: for it is that part, which fortifies the *Stomach*, and enables it to bear the *oiliness* or *fattishness* of the rest of the *Chocolata-potion*: it preserves the taste in its vigour, and the appetite, which would otherwise be dulled by the fatty portion: and as it helps digestion in the *Stomach*; so in the *Guts*, it promotes Concoction there; and corroborates them: all which is not to be denied to parts of that relish, as we experiment daily in herbs of a *bitterish* taste: nor need we to fear its *costiveness*; for, as none ever experimented such an inconvenience by taking good *Chocolata*, so I think it impossible, it should bind; since it is fer-

mentatio

entation, that we owe each stool to; and is impossible what promotes that in the cuts, can ever create a prejudice by too great an *adstringency*. It is strange, that all ages and Countries finde it to agree with them, and the effects of it are such every where, that it alone may seem to supply all Food and *Physick*. I have heard and read Discourses of *Panaceas*, and *Universal Medicines*: and truly I think *Chocolata* may be justly at least pretend to that Title, as any. For indubitably *Health* is nothing else but an ability to discharge the several ends, to which Nature hath designed us: and this depends upon the preserving each individual person in the individual constitution, which Nature hath given him. For howbeit, that we propose to our selves the *Idea* (conformable to what *Polycletus* did in another case) of a man exactly tempered; yet it is not the intent of a *Physician* to reduce every Patient hereunto: to the *Cholerick* it is his nature, not disease to be so; and so for the other complexions: and to subvert the particular temperament, is to destroy, not to cure: and the attempt will not succeed. To preserve a Man herein, it is necessary, that his Food be such, as digests well, begets good Blood and Spirits: and that this Blood (in which according to the *Scripture* is the life of *Animals*) be depurated so by the several *emunctories*, as that it may qualifie the party to exercise those acts, the performance



ance whereof is an *evidence* of life; and the well performance of them, *Health*. It is natural for the *Blood* to purge it self by several ways; and, if that be done, all the *Operations* of *Life*, and the intermissions of any of them, will be according to *Nature*. To imagine, that this can be performed by *Medicines*, is an impertinent folly: the *Blood* is more *naturally* purg'd by *transpiration*, and *sweat*; by *urine*, and *siege* duely discharg'd; by *spittle*, and *snot*; then by any *Purges*, or *Vomits*, or *Eleſtuaries*, or *Pblebotomy*. It is not to be done much less by one *Medicine*; for though such an *Arcanum* were in being, as would depurate the *Blood*, and revive the decayed *ferments* of *Nature*; yet would it require other circumstances to effect this, as a *moderation* of *Diet*, and the *fix* things *non-natural*, &c. without which it can do no more on the *blood*, then the *mixture* of *barm* doth to *wort*; it may be ready to produce a *fermentation*, but it will not open a *bung-hole*, or create *vents* for the *Drink*. Frequent *Pblebotomy* hastens old *Age*, besides other inconveniences: frequent *Purges* are much worse; for it is usual with *Nature*, when taught one course to pursue that to the *discontinuing* of other *evacuations*: so that, to teach *Nature* to disburthen her self into the *Guts*, and *Stomach*, (neither of which are designed for *Vehicles* or receptacles of *Excrements* remaining after *digestion*, or cast in there by *Nature*, but for a

continued

continued Concoction, prosecuted by Nature from first to last ) is to teach her to omit her other evacuations, which are as necessary as going to stool, and ( which is more ) to accustom her to disburthen her ill Humours into those parts, the right Tone whereof is that, whereon principally Health depends.

Let us consider, how our Palat and Taste is disorder'd by the defluxion or redundancy of an insipid Salt, or sharp and Vitrioline Humour : let us examine the like inconveniences, when they befall the Stomach, and by this Analogy conjecture at the effects, which arise in the Guts upon the like accidents. And can we think it prudence to use Nature to discharge it self into that Chanel, so often as we do ? View the World, and you will see, that not one of those, that constantly take purging and opening Diet-drinks; that deal so much in Pills of Scammony, and other such like Purges; not one of them, but is more or less Hypochondriacal : whereas those Country-people, which sweat, and labour, enjoy an undisturbed health, strength, and fresh colour.

To apply all this, since the nature of Health is such, as I have described it to be; and that it depends upon such means, as I have specified; it is undenyable, that there is not any thing hitherto extant in Physick, that may compare with *Chocolata*, which is not only *mony* in the *Indies*, but food, and Medicine too every where. It yields  
good

good nourishment, with this advantage, (wherein it surpasses all *Wines*, and *Cordial Spirits*) that its nourishment is not only quick, but less dissippable then theirs. It begetteth such Blood, as fitly depurates it self by *Stool*, *Urine*, *Spittle*, and *Sweat*; as I have observed in my self: and consequently there cannot be any thing more apt to preserve *Health*, and *vigour of Spirit*. I must profess it to be the Assertion of the *Indian Writers*, that it opens *Obstructions*, provokes *Urine*, and *Sweat*. I dispute not its temperament, be it hot, or cold, or imper-vestigable: but I shall tell my own Experiments, consonant to the *Indian Discourses*. I never could finde any such effects, when I took it mix'd with eggs, or milk: and indeed I like not much either of those ways, since the Nut there seems to differ much from it self, when prepared alone; as I observed in the dressing of it with the *Yolk*: and the same I have observed with the *white*, when commix'd the ordinary way; though I must needs say, that I have so put in, and mill'd the whole egg, that the *whites* have never curdled, though it hath been heated twice. But, to pursue my inquiry into the truth of the *Indian* assertion, I prepared it the *Indian* and *Spanish* way, and walking upon it, I felt my self to be seised with a gentle sweat, or moisture, and moderately to purge by *Urine*, and to expectorate: and this I finde constantly to befall me, if I take it

so:



so : and it less offends the Stomach, and refreshes more, then any other way. Having been lately at a Fish-diner, I found my self not well after it ; *Coffee* gave me no ease : but rather encreased the Distemper ; till I forced my self to vomit several times : having done so, I went to bed ( it being night ) and drank a large draught of hot *Chocolata*, prepared the *Indian* and *Spanish* way, and I suddenly fell into a sleep, and sweat : and so continued all night-long, and found my self perfectly well in the Morning. This effect seemed more strange, because many think *Chocolata* to oppose sleep, but I found my repose then very luddain, and lengthened at least three hours beyond what I usually take. Since that, I have sundry times taken it that way, going to bed, and I have found it no way to prevent sleep : nay, I never sleep better, then when I take it : and therefore I am ready to give this Reason for Mr. Gage's taking it, as often as he was to it up ; not to keep him awake, but to preserve his Spirits, which in the *Indies* need a frequent supply of food. Or it may be said, since sleepiness, and natural sleep are two things, that *Chocolata* may allay splenetique humes, and drowsiness, and yet promote natural sleep.

And as *Chocolata* provokes other Evacuations thorough the several *Emunctories* of the body, so it doth that of Seed, and becomes provocative to lust upon no other ac-

count, then that it begets good Blood; that nourisheth much, and, as it nourishes, separates the already inexistant superfluities; or varies, and degenerates into new Excrements, which are to be discharged out of the body by their several passages, one whereof are the *Spermatick vessels*. If I do call the *Seed* an excrement, I am sure I have *Aristotle's* authority for it: which will make it the less a *Paradox* to the vulgar; whilst others<sup>f</sup> concur with me herein, who by Excrement understand nothing, but *quod Natura excernere decreverat*, what Nature intended to excern: and that the *Seed* is such a thing, is undenyable, I think. The use of *Venery* is as natural, as for a Man to blow his nose: though not so lawfull every way; since even simple Fornication is prohibited the *Gentiles* with as strict necessity, as the eating of blood, and things strangled: And however after-times have absolved themselves from the necessity, which prohibited the latter, by eating strangled Rabbits, and black-Puddings: yet have few or no Divines attempted the former, or alleviated it: howbeit that \*\*\*

<sup>h</sup> *Petron. De vict. Rom. lib. 5. cap. 1.* And it is an unquestionable Experiment, that moderate *Venery* eases the Chest, revives the Brain, impinguates the Body, and cures or contributes much to the cure of many Diseases in both Sexes: it is admirably effectual in hot Distempers, and mad-  
<sup>ness</sup>

<sup>f</sup>vide *Prosper. Alpin. Medic. method. lib. 11. cap. 13.*

<sup>g</sup> *AR. 15. 29.*

<sup>h</sup> *Petron. De vict. Rom. lib. 5. cap. 1.*  
*Prosper. Alpin. Med. method. lib. 3. cap. 6.*

ness of the Brain in *young-unmarried* folks; as I have seen, both in *Maniacks*, and *Melancholicks*, whose Cure hath been more facilitated hereby, if not totally effected, then by repeated *Phlebotomy*, and extenuating Diet, and *Potions*, or *Electuaries*. Yea, I have known a *Chronical Tertian* break in the *Spring* by a *Critical solution* of this nature: which, however it may seem incredible, is I am sure true; nor had the Party ever before experimented those pollutions; but he did instantly recover, and was so far from being debilitated with a *large Critical eruption*, that he was beyond belief at that very time refreshed, and strengthened in his Spirits. I shall not insist upon the benefit Women receive thereby: though I could recite an infinity of Cases out of the *Physicians* for *Nunneries*, that might be considerable herein; their *Hysterical fits*, *Hypochondriacal-melancholy*, *Love-melancholy*, *Atrophy*, their *Spermatical Fevers* (related by *Sinibaldus* in his *Geneanthropia*) are instances of the necessity hereof: and then the great prudence of *Moses*, who, if he severely prohibited, that there should be no *Thore amongst the Daughters of Israel*, he took great care for their timely marriage. As for Men, I have known many, who, being absent from their Wives but a few days, could be troubled with a *smelling of the testicles*, or an unusual paleness, and stupidity of Brain seising on them, who would



finde a constant and infallible Cure again in the embraces of their Wives. Nor is this passage designed by Nature alone for the evacuation of the Seed : I have shewed how a *Chronical Tertian* critically did break that way; and many other eruptions happen that way, then are *Seminal*. I mention not the *virulent Gonorrhæa*; but intend other Pollutions, and Ejections, which are recorded in the books of the *Roman Casuists*, especially *Gerson de pollutione nocturna*. And, if I be thought immodest in this Discourse, I am sure the *Chancellour of Paris* is never named (no not by *Protestants*) but with honour, notwithstanding what he hath writ; and there are Passages in the Bible, that retrench as much upon Civility, as any thing, that hath fallen from my pen: and I treat of nothing, but what is as much included within my Profession, as within the Subject of *Casuists*; and why should I be more blamed? Is it not one of the ends of Marriage to prevent burning? yea, is not this the principal Argument insisted on by the *Protestants* in the behalf of a married Clergy? \*\*\*\*

Let us then take it for a certain Position, that *What yields the best Blood, and promotes all naturall expurgations, is the best of Food and Physick*. And that *Chocolata* is such, appears by what I have already said. I cannot allow it to be Provocative upon any other

other account: (if it be prepared without any lust-full Ingredients) and it hath this advantage above the most *substantial Butcher's meat* (the taking whereof with cheerfulness, and manly exercises, is the best *Veneereal preparation*) that it allays, with its milde and vegetable Oiliness, the sharpness of the Blood, and Nervous Liquour, which the *animal Sulphureousness* of the other does not. There can be no Universal Prescript for the promoting *Seminal Excretions*: yet, since it is a part of *Physical Institutions*, and treated on by every *English'd Institutionist*, I shall enlarge thereon, for the benefit of the married: which is a justification always sufficient for these kind of Discourses.

I take it for granted, that there is a particular ferment implanted in the *Testicles*, and *Seminal parts adjacent*, whose Nature it is, after that it hath lain digesting, and maturing for so many years (*viz.* twelve in *Females*, and fourteen in *Males*; more, or less, according to the *individual temperament*) then to exert it self, and to vibrate the Blood, so as the whole body, as well as voice, suffers a great change: the *Aspect* becomes *more lively*, and *chearfull*, their *Wits* more ripe, their *Carriage* more *debonair*, their *Nerves* more *agile*: in fine, I may here accommodate, as to the age beginning to be qualified for thoughts of Love, what the *Comedian* said concerning Love it self,

*Adeone ex amore quenquam immutaverit,  
Ut non cognosces eundem esse?*

This *Seminal ferment* in its first operations doth only impregnate the Blood, and nervous liquor, circulating, and passing through those places, in which it resides, with a new and unspeakable vigour, and sprightliness, without occasioning any excretion, or seminal congestion in the Testicles, or prostate, but inclining to erect: for the operation of each ferment hath its time, and requires a determinate Subject to operate on. Thus Lads have Venereal proflusions, yet without emission; because the Seminal ferment doth enliven their Blood, without any separating of seed thence: for the Blood, and proportionably the Liquor of the Nerves, is not of the same nature in Striplings, as it is in men of fuller growth; there being in the former a great deal of Phlegm with a small quantity of Spirit, and volatil Salt, whereas the latter is of a much different nature: and consequently, the effects of the Ferment are not so powerfull in the former, as in the latter.

From this Consideration it is easie to finde out a reason, why Striplings are longer before they eject, then others, and yield not so much pleasure to the Female they embrace. Their Seed being without doubt clogged with Phlegm, which doth more slowly



slowly issue out, and, for want of *Salt*, and *Spirit*, doth not so affect the Womb, that receives it, as doth that of a *grown man*: and this is the reason, that *one man differs from another* in the *pleasure* arising from his embraces: and a *Woman*, accustomed to the Society of one Husband, may either not love him, or prefer another, with more excuse, then the vulgar allow, or apprehend: there being a very great resemblance betwixt the *Womb*, and the *Stomach*, and as great a possibility, that the one is capable of *leaving* some — as well as the other may do some *Meats*: and of this, as to the variety and difference betwixt *Woman* and *Woman*, or betwixt the same *Woman* at one time, and at another, I have been assured by Men of great Experience, as also by sundry eminent Writers, as *Ulmus*, *Campanella*, and *Sinibaldus*: and *Martial* many times insinuates it.

Whilst it is not natural for this *Seminal ferment* to act, so long the Blood needs no such *evacuation*; and the attempts of it are prejudicial to the *Health*, *untimely Venery* hastening *old age*: but, when the Blood and *Nervous Liquor* becomes *acrimonious* thorough the abundance of *Spirit*, and *Salt*, and that it is impregnated by the *Seminal ferment*, as water passing thorough *Minerals*: then it is natural for it to deplete it self by a separation of Seed in and about the *Testicles*: and that, being separated there, is not

reimbued into the Vessels again usually, ( for in some Cases I believe it to be ) but it will force its way out in *nocturnal pollutions*, or create perpetual *inclinations to Lust*; or, in part reuniting with the Blood, after it hath been *long extravasated*, it begets *redness and Pimples in the face*, *acrimony of Blood*, *Sputation*, *Oppressions of the Chest*, *Palpitations of the Heart*, *surliness of Humour*, *Disturbed Sleeps*, *Head aches*, a *peculiar Distemper in the Brain*, as ( together with its Cure ) is more evident to sense, than to be expressed by language.

i Vide Prof-  
per. Alpin.  
lib. 3. Med.  
Method. cap 6.

This is the nature of Man, who in *Paradise* was to encrease, and multiply; and by the fall his Nature was debilitated, not lost.

In his book<sup>k</sup> concerning the City of God it is avowed by St. *Austin*, that *Adam* in *Paradise*, before the fall, could have erected at pleasure, and that the motions of the flesh were so perfectly subordinate to his will, that he could as easily have moved his — as put in at the his hand; a constant vigour and immortality of end of the spirits attending him, and being entailed on him, whilest he continued in that condition: but, since the fall of *Adam*, those amorous inclinations are less constant to men, and depend upon other circumstances, then the dictates of his Will. The effects of Grace bestowed on *Adam* are endeavour'd to be supplied ( where youth, or Nature fails; the efforts whereof are infinitely short of the pleasures of *Paradise* ) by Salt,  
or

k Aug. de civit.  
Dei lib. 4. cap.  
23. & 24. The  
whole Pas-  
sage, being  
too large to  
insert here, is  
put in at the  
end of the  
book; to il-  
lustrate the  
effects of A-  
dam's fall, and  
as an Apolo-  
gy for this  
Discourse a-  
gainst severe  
Censurers.

Spiced meats, Cullises, and Jellies. But  
 either Anchoves, or Bononia-sausages; no  
 reparations of Cock or Lamb-stones, or Dia-  
 tyrrion equal that primitive condition: nor  
 to the Fruits in *Jamaica* call'd *Cusbu* e-  
 qual the feeding of the tree of Life, as to this  
 point. Some are provocative only by pro-  
 ducing a strong and well-digested nourish-  
 ment. Thus solid and substantial Butcher's  
 meat, and the like, are the only lustfull  
 maintenance to a good constitution, and strong  
 body, inured to vigorous Exercises; for  
 the performances of the bed are not crea-  
 ed therein. Ease and soft-lying do but effe-  
 minate the body, and they become unable  
 to concoct strong meats: and the Seed be-  
 comes worse-digested, and, as I may call it,  
 worse-relished for the *Gusto*

the *Womb*; the erection  
 less vigorous, and the spi-  
 rituascency of the seed little;  
 and the ejaculation too sud-  
 den, weak and impropor-  
 tionate to the ardours, and de-  
 creases, and expectation too of  
 the Female Paramour. The  
 nourishment, that ariseth  
 from substantial meats, and  
 full growth, is less dissi-  
 pable, and more impregna-

ed with animal Salt, then the young, tender  
 flesh, or liquid sups: they require and pre-  
 serve a strong Stomach; which lighter meats  
 do

I hope the *Presbyterians*  
 will consider this, and no  
 longer condemn the *Chocolata*  
 drinkers for *Luxury*, and *Vene-*  
*real* inclinations: since it seems  
 manifest, that there is no *Ve-*  
*nereal* projects like to your con-  
 stant Diet: viz. a *Cawdle* in  
 a morning, milde, but hearty:  
 a diner of solid meats, a good  
 Sack-possiet with Eggs & milde  
 Spice, at night; and all day a  
 moderation in drink, and exer-  
 cise.



do not : and *exercise* depurates the Blood separating out the several excrements by distinct *emunctories*, whereby the Blood better concocted, and capable to yield more *vigorous Seed*, and to bear its ejection more easily, then otherwise it would. The *Nerves* and *Muscles* are more *tense* and *strong* the *Pulse* is more full and strong after waking, then in the sleep : and every Man experiments the truth hereof in himself. This is a good Constitution if you give *Wine*, *Spirited-drinks*, or other *Delicacies*, or *Luxurious provocations*, you destroy his Stomach and debilitate him. These Incentives are only for the *Phlegmatick*. The others ( especially the *more hot* ) are more provoked by cooling things, and what fixes rather than heightens the *Spirits*. Thus *Rachab* purchase *Mandrakes* for *Jacob*. Thus the *amorous* and *Martial Turk* drinks *Opium* and *Shirbet*, to continue his *lust*, as well as his *strength* : and however the generalicy prefer the yolks of *Eggs*, the most observing <sup>1</sup> *Petronius*, and others, who have tryed it

bid me say, there is not any thing in Art, that equals the white of an Egg mix'd with son.

<sup>1</sup> Vide *Petron.* De vict. *Roman.* lib. 3. cap. 19. De ovib, & lib. 5. cap. 16. Qui etiam ad sobolem procreandam majore irrimento, plurique semine indigent, hos & efficacius & suavius concubituos, si prius, quam uxorem ineant, ferculum ex lacte ovorum quæ tremula nuncupantur, cum pane recenti, quemadmodum lac ipsum comeditur, triduum quatrimumve manè & vespere ante cibum assumpserint. Neque in hoc casu presidium aliud ullum huic par esse, si pipiones cum vino rubro, cum Aromatibus, sive Diasatyron in medium adduxeris.

tempera

temperate *Cordial emulsion*, or beaten with  
*rose-water*, and mix'd cautelously ( to pre-  
 vent *Curdling* ) with some streined *water-  
 ruel*, or the like, and sweetened with *Sugar*.  
 And being prepared this last way ( or with  
*rose-mary-Possiet-drink* ) it is an excellent  
 thing for any *Cold*, or for a *weary Travel-  
 er*, causing him to rest well, and reliveing  
 his strength, so as to diminish, or take away  
 all wearisomness occasion'd by *hard tra-  
 ail*. Others will be the more inclined to  
 this *Opinion* not by tryal, but common  
 reason: it being the *White*, out of which  
 the *Chick* is shaped; the *Tolk* being entire,  
 when the *Chick* is almost ready to hatch.  
 It is an *albugineous substance*, out of which  
 we are created, and fed in the *Womb*:  
 and the *Seed ejected* hath a more then ordi-  
 nary resemblance, in its colour, consistence,  
 and *spirituascency*, to the *white of an Egg*.  
 Besides, it is the *white of an Egg*, which  
 makes the *bread*, *cakes*, &c. to be *light*;  
 four *Tolks* commix'd make them heavy:  
 the one allays all *acrimony* of *Humours*;  
 the other encreases *Choler*, and augments the  
*evil Humours* in the *Stomach* by being easi-  
 ly *depraved*. In sum, I think it can hardly  
 be imagined, that the *Tolks of Eggs* be good  
*food*; since the *taste of them* upon the *Sto-  
 mach*, after the eating of other meat, is a  
 sign of *ill-digestion*. And indeed the ta-  
 king of the aforesaid Preparation of *Whites*  
 of *Eggs* is never more necessary, then after  
 those

those *ambrous conflicts*; when the *Nerves* and *Blood* are weakened by the late *effusion*, and the vigorous performance of those *Venerable Exercises*, in which the whole body suffers a very great agitation, and the *Sinews* are in a *tension* answerable to the stretching of *chord*; the whole *Blood* boils, and the *Brain* labours proportionable to the passion of the *Inamorato*: who, if he be not of a *hot* a *Complexion*, exchangeth those transports, and *pleasing languours*, which conclude these *dalliances*, for a delightful slumber; but, if he be of a more *Cholerick*, or *hot constitution*, the disorders of his *Blood* survive his delights, and diminish them much by rendering him *Melancholy*, or *peevish*, and either immediatly, or not long after creating him an *head-ach*, which is not allayed but by the *next night's repose*. To prevent this, our *wise fore-fathers* in *England* made it a custom each *Wedding-night* to provide a *Sack-posset* with *Eggs* for the *Bride-groom* to eat of, going to bed; and also to stand by him *all night*, that he might eat of it, as often as he pleased, to recruit his *Spirits*. I should recommend the like practise (either mixing his *whites* of *Eggs* with *gruel* or *Sack*, or *Sack-posset-drink*; and omitting, or lessening the *yolks*) to every *Lover*, as often as he is engaged, taking of it immediatly after he hath ended his sport: whereby he will (provided it be not too thick) prevent the inconveniences of the  
pass



ast conflict, and be ena-  
led for another. As for  
*chocolata*, how effectual  
it may be herein, I un-  
derstand not by experi-  
ence: but, since the most  
amorous Nations in the  
World drink it, it is ve-  
ry possible, it may conduce  
hereunto much. If it be  
the design of Physick to  
preserve Nature, and free  
her from superfluous col-  
lections of Humours; and  
nothing doth that better  
then *Chocolata*, as far as  
*Venery* is but the Collecti-  
on and ejection of a super-  
fluity gathered in, and a-  
bout the Testicles: with-

out doubt Physicians cannot decline to re-  
commend it. It chears the Spirits, begets  
good Blood, and opens all the Emunctories  
of the body, and passages, by which Nature  
designs the ejection of some particular Hu-  
mour. And this is to be understood of the  
*Cacao-paste*, and milde Compositions of *Choco-  
lata*, in which there is nothing, that doth  
beget a particular fusion in the Blood, and  
a titillation inclining a man to *Venery* be-  
yond the natural disposition of the Person.

What I have hitherto spoken had no fur-  
ther intent, then the support of that Nature,  
which

I cannot rely upon my own ex-  
perience in any part of these amo-  
rous Discourses, and Observations:  
but I owe it all to the acquain-  
tance I have had with Persons,  
the vigour of whose Spirits, as it  
made them learned and eminent  
Philosophers, so it did incline  
them to render to love. It being  
observed by the Marquess Mal-  
vezzi, that Men of great parts  
are not chaste by Nature, but Grace  
or Prudence makes them to be so.  
But, as to the taking of the white  
of an Egg in gruel at night, I  
have for some years scarce used  
any other Supper: and I finde it to  
refresh my Spirits, which are ta-  
ken up with perpetual contem-  
plations, and to allay all ardours  
of the Blood, and vapours, whose  
armony might disturb my rest,  
and to remove all weariness oc-  
casion'd by study, or travail.

which God gave us, and which, as I have shewed out of St. *Austin*, hath been much impaired by the fall. I know many will be apt to censure this Discourse, as tending to sensuality, and the upholding carnal lusts and desires: but I suppose the more prudent will acquit me from any such imputation since that is not the use, but abuse of *Chocolata*, and is common to it with all other meats of good nourishment: against which do not hear them so to declaim, as to interdict them totally. I am not ignorant, that there is a Doctrine of Mortification, and that we ought to suppress carnal lusts: but I am to learn, that this is to be understood literally; and that we must geld our selves like *Origen*, or chastise our selves with the *Papists*, and not understand all those Doctrines spiritually, and like good Protestants, defying the exercises falsely called *Spiritual* by the *Popish* Friars, and *Jesuits*, who practise this literal Mortification: whilst we imagine that carnality may be subdued by other means, captivating the Understanding into the obedience of Faith, and subduing our wills, not breaking our backs; and denying our lusts, whilst we preserve a Nature and temperament given us by God. I expect the greatest censure from those, who disclaim Fasting-days, and Ember-weeks; who keep Lent with Capon, Sack and roast Beef; which is their Luxury: and what they condemn in others is but a different and less solid

*Luxury*, then what they pursue.  
 I am not any way disposed to instruct  
*men in evil*, and would not seem to en-  
 courage them therein: and, to evidence this,  
 shall now speak concerning the more com-  
 mon *Chocolatas*, which are made, or used on  
 purpose to augment *Venerous inclinations*.  
 The things usually designed to *estimulate*  
*Nature to excessive Venerary* are very hot, and  
 aromatical, and which also carry with them  
 an *acrimony*, or *saltness*, wherewith they con-  
 tinually excite *Nature*; which being in-  
 cessantly provoked thereby casts out what-  
 ever is next, whether it be *well* or *ill-con-*  
*ected Seed*, or *Phlegm*, or *Blood* impregnated  
 with a *saltness*. It is not heat alone in meats,  
 that doth it: for the effect of *Cloves*, *Cin-*  
*namom*, and *Nutmegs*, or *Mace* is not equi-  
 valent to that of *Pepper*, or *Salt*, and *Salt-*  
*meats*. These last operate by introducing a  
 momentary or lasting *saltness*, or *acrimony*  
 into the *Blood*, which, as it circulates thorough  
 each part, makes different impressions, accord-  
 ing to the different *Nature*, or *indisposition* of  
 the part. And, if any disease introduce any  
*acrimony* or *Saltness* into the *Blood*, the  
 same Persons will be much inclined to *Ve-*  
*nerary*, thus those, who have the *Itch*, and *Le-*  
*prosie*, as also the *Melancholick* Persons are  
 exceeding *amorous*; however the last bear  
 those *evacuations* very ill; and the lying  
 long, and on soft beds, and living idly,  
 both render Men *lascivious*; but these are  
 not



not natural, but *morbid inclinations*, and therefore are neither executed with the *activity*, nor hath their seed that relish, or *gusto* in the Womb of the *Feminine* consort that attends *vigorous and active Men*. For *ease and idleness* retard *transpiration*: and those *Humours*, which should issue out according to the several intents, and *passage of Nature*, being retained, or resumed into the Blood again, introduce an *acrimony* into it, whereby Nature is exstimulated to an *ineffectual Venery*. Thus, after long *Agues* or the recovery out of *Chronical Diseases*, *salacity* possesses the Patient, which as it ariseth from no other cause, then I have already specified; so it is prejudicial to the Person he embraceth, for hereby Diseases are transplanted oftentimes, as the *Pocks*, and *Consumptions*: or new ones introduced, of which the poor woman is not apprehensive, being ignorant of this cause lying in the constitution of the seed of her Husband newly recovered, or newly having fill'd his Veins with *acrimony*, or *saline humour*, occasioned by some late entertainment. And when I consider seriously the multiplicity of *Distempers*, which affect our *English Ladies* so as that such as were very healthy *Virgins* become very sickly and *infirm Wives*, and some recover again as soon as they are *Widows*, I cannot but think that many of their Diseases may arise from the seed, which their Husbands inject, and are fomented so thereby.

that

that all *Physick* becomes unsuccesfull, because they do not totally refrain each other's Bed. I am very confident of this Opinion of mine, that it is true : because several have assured me of a great discrepancy they could feel in the seed of their Husbands at severaltimes, and that they were variously affected thereupon.

I shall evidence this by a notable History of *Laurentius Hofmannus, De usu & abusu Medic. Chym. pag. 124. Et ego ipse nobile par conjugum mirabili morbo afflictum vidi, quos hoc inspo [sc. Mercurio vitæ] feliciter curavi. Causum itaque hunc mirabilem, & vix auditum, libet apponere. Quotiescunque maritus rem cum uxore juvencula formosissima habere cuperet, maximè hæc trepidabat, concubitumque illius reformidabat, propterea quod plerumque, post seminis masculini, calidissimi, & fetidissimi, effusionem, exanimis in thoro jaceret: factor enim seminis aded abominabilis fuit, ut ferè semper post coitum in animi deliquium inciderit. Interim tamen quinque annorum spatio decies concepit, & molas, vel exstercuæ peperit. In consilium itaque vocatus, Mercurium vitæ marito, uxori verò alia convenientia exhibui remedia; quibus Deus ita benedixerat, ut non tantum magnâ cum dulcedine nobilissimi conjuges deinceps amoris poma lecerperent, sed etiam anno sequenti parentes audirent. That is, 'I knew a noble married couple troubled with a strange sort of Indisposition, whom I successfully cured*

L

with

with *Mercurius vite*. I shall report the Case,  
 it being rare, and unheard of. As often as  
 ever the Husband conjugally embraced his  
 Wife, which was a Person of extraordinary  
 beauty, and youth, *she* used to shiver, and  
 tremble, and feared nothing so much as  
 his *amours*: because that for the most part,  
 after that she had received into her womb  
 the seed of her Husband, which was very  
 hot, and of a most stinking scent, she used  
 to swoon away: for so abominably noy-  
 som was the seed of her Husband, that  
 it was no sooner injected, but it caused  
 faintings and swoonings in her: yet did she  
 conceive, and miscarry ten times in the  
 space of five years. Being demanded my ad-  
 vice, I gave the Husband *Mercurius vite*, and  
 to the Wife other suitable remedies, which  
 had so great an effect, by God's blessing, that  
 the two Noble Personages did enjoy each  
 other with a great deal of pleasure, and  
 she brought forth a living childe the fol-  
 lowing year.

Nor is this repugnant to what we daily  
 observe in *uterine injections*, which differ-  
 rently operate according to the different  
 Ingredients, and Qualities. And if it be so  
 herein, how much more ought we to al-  
 low the truth hereof in Seminal injections,  
 which as they are injected, as are the for-  
 mer, so they are received with much more  
 ardour, the conflux of Spirits thither oc-  
 casioning a greater tension and heat there



at that time, so that the contagion pierces deeper; as Infection is sooner caught by the foot, and sweating (the pores being open) then by the cold, and chill.

Lest the *Women* hereby should upbraid the *Men*, and boast the hazards they run by Marriage: I must crave leave to tell you, that there is as great variety in *their Sex*, as in ours; and that every one, that wears a Petticoat, is not capable, nor merits the affection of a Man, how beautifull soever she may be: nay, commonly it may be said, that the fairest Persons (where a mixture of white and red accomplishes the face) and the best shaped are fitter for Mistresses, then Wives, and yield a more pleasing entertainment in a Balcony, or Coach, then Bed. I shall not alledge the Reasons, though they are irrefragable: but only add, that it were as idle to write an *Apology* for those, who, having married such, continue not their affections beyond the first moneth, or year. It is for such that the Proverb of *Hony-moon* was designed: and if any can continue a long affection for such, either the Man is extraordinary good, or cautious, or the Woman extraordinary cunning; or else he is a novice, who, having no experience of the Sex, imagines all to be as his Wife is; as that *Romane* Dame supposed all Men's breath to stink (the having never kiss'd any else) because her Husband's did so. I could here enlarge upon the Reasons, why a

Man may love eagerly and constantly a deformed Person to the prejudice of a beautiful Lady, and assert the commendation of *Ronsard* to *Pasithea*, or the Queen of *Navarre*, whom he represents to be

*Of Complexion rather brown, then fair.*

With which agrees the choice of *Solomon* in the *Canticles*: *I am black, but lovely.* But I shall only add, that it is an undeniable thing, That there is not that Variety, or certainty of Accidents, that befall a Man, so as to render his Embraces distastfull, or fatal (excepting the *French Pox*) to any Woman, that there is in most Women, to render them unfitting, or unworthy the Embraces of a Man: so great an alteration doth Age, Child-bearing, Sicknes, and the like, introduce into the Womb, as to its Natural Make, or Original Ferment. Nor are Men either to be separated for the reality of their applications, and professions, before marriage; because they live not up to them, after it: or to be censured so bitterly for inconstancy; because they persist not in their first Affection, and Declarations: for perhaps the beautiful Lady is changed; or did by Surrender acquaint him with Discoveries he knew not before, nor could make: and therefore, if he proceeded by that Rule, which his sight and utmost enquiry gave him, he acted as well as Man could, but he still might

might be deceived in the Conclusion: but that, being deceived, and *knowing himself to be so*, he should act, and comport himself as if he were not so, is a constraint every Man's Spirit cannot submit to: and therefore it is to be excused, as well as the principal frailties, whereunto Humane Nature is lyable.

The truth of what hath been already said being granted, I shall suggest two Conclusions therefrom, which I think inevitably do follow: *viz.*

I. If it be true, that the collection and ejection of Seed in Man, (or Woman) is a natural act, arising from the Blood depurating it self, and the Ferment of the generative parts particularly operating upon the Blood; then ought they no more to be forced, then those other natural Excretions are, of Snot, Spittle, Urine, &c. which we do not promote, but when their deficiency is, or may be troublesome: nor do we evacuate, but

L 3 when



*when we are sensible of their redundancy.*

2. *If it be true, that there is a great discrepancy not only betwixt the Seed of one Man and another, but betwixt the Seed of the same Man at one time, and another; which is occasioned as well by the Food, and Physick he takes, as by alteration of Age, or Sicknes: it is then very considerable what Provocatives a Man takes, or a Woman gives to provoke lust, or conjugal desires, lest the Nature of the Seed be depraved, and the Woman incurr harm thereby.*

*It likewise concerns the Woman to have a particular regard to her self, that she may with equal ardours meet the embraces of her Husband: she must know, that to retain his affection more is necessary then solemn promises, and joyning of bands in the Church, or the continuing of her beautifull aspect and shape; these may acquire, and fix a Servant, but not an Husband: she must therefore take care, that her Blood be every*

ry way sufficiently depurated, upon which depends the Vigour of *Body*, and *Minde*; to the effecting whereof more is requisite, then I can now propose.

*Active Complexions* are only to be preserved what *they are*: all forcing destroys them. These therefore must have a *milde* and *temperate* sort of *Chocolata*; not enriched with any sort of *Pepper*, but that of *Jamaica*, nor any other *Spice*, then of the *West-Indy* growth. They need not *natural heat*; and the aforesaid Composition will sufficiently enliven them: but, if any debility of *Stomach*, or accidental weakness befall them, they may vigoiate the *Chocolata* with a glass of good *Canary*, or old *Malaga-Sack*, when they mill it up; or take a more rich sort, but yet short of those *hot* and *fiery Compounds* used by the *Spaniards*. The *Phlegmatick* Tempers, if also *abounding with ill Humours*, must take *Chocolata* cautiously at first: pre-mising a *Purge*, and taking some gentle *Lennitive* once in six or eight days; lest it beget too great a fusion of *Humours* in his body: and he must begin with *milde Chocolata*, and after take richer and more effectual Compositions. *Nature endures not violent and suddain changes*. I once had a *Woman* came to me to complain of the *unactiveness* of her *Husband*; who was, to see to, a *lusty able Man*, but *Phlegmatick*, and of a *muddy aspect*, as if *Cacochymical*: she desiring of me some powerfull *Electuary* to add courage

rage and life to him: I prescribed her one agreeable to what *Vannius* in his Dialogues recommends; not doubting, but he would propose the most effectual in that kind, *Leachery* being his greatest Moral vice. He had not taken it many times, but it created in him desires altogether unusual; but, in the midst of *his* and his *Wife's* delight, he fell into a suddain fit of an *Asthma*, which had almost ended his days.

In reference to both these Considerations perhaps it is, that in *Italy* they now condemn *Chocolata*, if we may believe <sup>m</sup> *Sinibaldus*; because it was found so Provocative; that in a little time it rendred the Men impotent: like those *Plants*, which, if they be suffer'd to run to Seed, dy that year. But those *Italians* know no *Chocolata*, but what is of the *Spanish*-make, and abounding with *Chilli*, or red Pepper.

<sup>m</sup> Oritur Asperma obrepum impense calidarum usum, quae semen, & succos, è quibus prodir exsiccant, &

exbauunt; ut ruta, mentha, camphora, & alia id genus malefica naturalia: quibus addi potest nova illa sorbitio, ex calidissimis herbis ab Indis parata, quam vocant Chocolate. Hec enim Seminalem succum arefa: it adeo, ut qui illam frequentant, brevi tempore aspermati fiant. Sinibald. Geneanthrop. lib. 15. tr. 1. cap. 20.

I shall speak no more concerning the use of *Chocolata*, then as it is prescribed in *Hypochondriacal Melancholy*: because that: this doth merit a particular enquiry; for sundry do commend it therein. *Paulus Zacchias* in his *Italian Treatise of Hypochondriacal Melancholy* mentions it, and saith, It is not  
to



be allowed in that Distemper, but with a great deal of judgment: since he cannot believe, but it is rather *hot*, then *temperate*. And *Piso* saith, he knew none in *Holland* to receive hurt by the use of *Chocolata*, but such, as were troubl'd with *Hypochondriacal* distempers: from whence we may collect, that, in his judgment, it could not be allowed to them. Yet I have known learned Men here in *England* prescribe it in the Case aforesaid. I shall, with submission to better Judgments, solve the Question by distinguishing the several Compositions of *Chocolata*, and commodating them to the Disease converted. In *Hypochondriacal Melancholy* we are to consider how there are great Obstructions in the *Mesaraical Veins*, and *Chyliferous Vessels*, so that no other *Chyle* is distributed into the Body, but what is apt upon the least occasion to ferment, and boil: which as it is perceivable by the Patient in the whole Body, so the multitude of *Arteries* in the *Spleen*, and its communion with the *Stomach* (by what ways I enquire not, but the *Communion* is undeniable) make it primarily and most evidently perceivable there. There is also a Debility of the *Stomach*, which is so relaxed, that it neither digests the Food received, well; nor emits it, being digested: so that it corrupts by long stay in the *Stomach*, (the Body being inactive in the mean while) and grows *sour*, and so corrodes the *Stomach*, and whatever is

is ingested, it presently begets a great conflict in the Stomach, attended with ac vomitings oftentimes, and the whole mass of *subtle* and *sharp* Blood is likewise affected and put into *heat* and *disorder*, especially the *Hypochondria* thereupon. Thus they are never well, full, nor fasting; and pine away complaining of a weak Stomach: which the *Italian* and *Spanish* *Galenists* considering thought the Disease to proceed from a cold Stomach, and not from an *Aqua Stygia*, or the like *Menstruum* in the Stomach, made up of the several *Salts*, and *Tartars*, extracted out of the different meats eaten, and a redundant sharpe liquour issuing out of the *capillary Arteries*, and coats of the Stomach into the Stomach: for as the blood is in such very *serous* and *sharp*, so is the Humour transuding into the Stomach heightened in its acrimony, and augmented in its quantity beyond measure. Now, the Question is to be understood, *premissis generalibus*, general Purgings being duely premised, and opening Physick administered. And in this Case I answer, That *hot-spiced Chocolata* (and especially what hath *black long*, or *red Pepper* in it, whose Nature it is to create an acrimony, as well as to heat the Blood) cannot agree with the Stomach because they will more heat and inflame the Blood, then is tolerable: and this is confirmed by the experience of *Piso*. But, as for *milde* and *temperate Chocolata*, I doubt not

out such a sort might be made, as would exactly suit the Disease, and contribute much to the recovery, being given in *water*, not mix'd with *milk*, or *eggs*; but given the *Spanish* and *Indian* fashion: and the *water* it self being such a *water*, as will not stay in the *Stomach*, but pass immediately into the *Blood*, and void it self by *Urine*. To confirm my Opinion, do but consider the Nature of the *Cacao-nut*, and *paste*: it is very *nourishing*, it *allays vapours* and *ebullitions* of the *Blood*; it is not apt to *sowre* (as *gruels*, and *broths* of *meat*, or *China-root* instantly will) and it *keepeth* the *Body* *soluble*, and *moderately* *purges* by *Urine*. All which *Indications* we are to aim at in the *Cure* of this Disease. It also *corroborateth* the *Stomach* by its *adstriction*, it *allayeth* the *Lower Humour* by its *unctuousness* (which floats not on the top, but accurately *commixes* with the *liquour*) and its *bitterishness*, then which there is not any thing else more gratefull to a weak *Stomach*. Add to these *Considerations*, that *Chocolata* is a *liquour*, and that the *Cure* of *Hypochondriacks* depends upon *humectation* (seeing that *Melancholici, si bene humectantur, bene curantur*) and there is not any thing can occasion a *scruple*, but the addition of *Sugar*: which how far it may agree, is to be determined by *Experience*, since otherwise it will be condemned by *Reason*. But, should it not agree, the *Cacao-paste* may be prepared for  
Persons



Persons deeply *Hypochondriacal* without *Sugar*, or *Spice*, except a few *Anise-seeds*, and powder of *Santals*, or *Sassafras*, and dissolved, upon occasion, together with some *Bezoar*, or any other *Stomachical Preparation* of *Antimony*, or whatever will saturate that *esurive Humour* upon the *Stomach*, and open *Obstructions*. Being thus given, I cannot imagine, but it must be a very effectual contrivance for the desperate *Hypochondriacks*, being regulated by a diligent *Physician*, and an observant *Patient*: without which it is impossible to effect that *Cure*; which is tedious, and requires *circumspection*, and variety of remedies to carry it on. As for those, who are afflicted with that *Distemper*, I suppose a *milde sort of Chokolata*, with a mixture of *Spice*, and *Sugar*, may agree very well.

The other *Virtues* of *Chokolata* in *Hysterical fits*, and *Asthmas*, or *Consumptions*, I have not time to insist on: from what I have said, and shall say about the way of using *Chokolata*, any *Physician* will be able to collect how it is, or may be used in such like Cases.

Concerning the variety of *Ingredients* in *Chokolata*, and the several frauds in making it up, I have already spoken so much, as I need not to enlarge again: only as to the Addition of *Achiote*, I hear the use of it is condemned by one of our most learned *Physicians*, as being *prejudicial to the Head*. I could

could never yet hear what Motives he had for that Opinion of his: for in all the *Indian Writers* I do not remember any such thing; I have already represented their Testimony, and that is the voice of Experience in Comprobation of the use of it. I never found any inconvenience by the use of *Achiote* (which is an Ingredient in my ordinary and royal *Chocolata*) nor do I hear of any, that does. I would rather adventure to recommend the use of *Achiote*, since, without heating, it doth powerfully attenuate all gross Humours, (and the Blood of us Northern People is more gross, and less fusile, then that of the Spaniards, or Indians, and we are prone to Coughs, stoppings of the Chest, and Aibmas, by reason of our gross feeding, and the thickness of the Blood, whereby it is apt to obstruct the Lungs) and since it doth make the *Chocolata* to agree better with the Stomach, then otherwise it would. I have faithfully declared already the judgment of several Writers concerning *Achiote*. It is generally put into *Chocolata* by the Indians, and Spaniards, and Portugheses; and that none should ever observe in it a particular repugnancy to the Brain, or a quality, that might give ground for such a surmise (which I cannot by my taste) is very strange: and how probable the thing is, let others judge.

Since the writing of the aforesaid Passage I have received the complaints of a fair Lady,

dy, who thinks, that taking of my common *Chocolata* with *Achiote* in it, the Head-ach (whereunto she is Naturally, as well as by her condition of being with Childe, prone) is encreased; and that it doth create a more then usual heat in her Face, and Body; and indeed I my self, taking for sundry days of the same *Chocolata*, found, that, taken in *Paste*, or *liquour*, it did cause in my *Stomach* and *Body* a greater and particular heat, which before I never felt. To finde out the cause of this Accident, I examined the Person, that made it up, and I found, he had varied his *Achiote*, and used a new parcel, (which to me seemed not so good) which in the same weight did yield a deeper colour by farr, and occasioned, as I thought, the aforesaid Case, which did not happen when I used another sort, which to me seemed more pure, then the last used. But I did further observe, that the *Chocolata* complained of did promote Expectoration beyond any other, I ever took to eat, or drank: so that I conceive, in Case of *Asthmas*, and *Stuffings from Phlegm*, such a sort of *Chocolata* might agree well. As to the heat of *Achiote* it self, I could not perceive any more in the last, then in the other; nay, I must profess, I think, that five Grains of the said *Achiote*, taken by it self, did not so much heat me, (nay, it did not cause in me any sense of heat) as did half a Dram of *Chocolata-paste* already mentioned:

yet



et in sixteen Ounces thereof there was but  
 ne Scruple. And this Consideration puts  
 ne in mind of the *Indian* remark, that *A-*  
*chiote* ( though destitute almost of *Taste*,  
 and *Smell* ) doth amend the *Taste*, and *Smell*,  
 which it may do, as well as the *beat* ) of  
 the other Ingredients. And though it be  
 not sensibly *hot*, yet by its penetrancy, and  
 the great attenuating faculty it hath, it  
 may occasion some Distempers in the Head,  
 where the *Blood* is already so attenuated,  
 that it admits no further Rarefaction with-  
 out indisposing the Head, which ( accord-  
 ing to *Mechanical Philosophy* ) must needs  
 receive a greater afflux of *Blood*, the thin-  
 ner it is. In the choice of *Achiote* I can on-  
 ly give this Rule, that it be *solid*, not *soft*,  
 rather *pale-red*, then *deep*, free from seeds,  
 or *greenish hulls* within; and not *musty*.  
 As to the quantity to be put in, I finde it is  
 impossible to determine the proportion,  
 by reason of the variety of *Achiote*: but  
 take the *Indian* Rule, recorded in *Ledesma*,  
 to put in as much, as will colour it: ( and  
 that not deeply ) and adhere not to what  
 was prescribed me, *viz. half a Dram in each*  
*Pound*: which though it proved well in the  
 first Essay I made for His Majesty, the *A-*  
*chiote* being singular; it hath since displeased  
 me.

The way, in which I choose to take *Cho-*  
*colata*, is sometimes to mix *two parts* of wa-  
 ter with one of milk, and to dissolve the  
 Cho-

*Chocolata*-paste therein with an Egg: for care not for *milk* alone. But most usually I take three quarters of a pint of good [Conduit] water well-boil'd, and dissolve in it (stirring it frequently with a Spoon) one ounce of *Chocolata*, and two ounces of fine Sugar: having let it stand before a moderate fire to dissolve, when it is so dissolved, and that the liquor seems very fatty with a yellow fat, and that there sticks to the spoon an undescribable unctuousness, or oyliness (however that the *Chocolata* be not half dissolved, but that a great part of it still swim in great flakes, and small parcels, up and down) I proceed to mill it very well, and then set it to the fire again to dissolve more perfectly: and having let it stand a good while (even till it be ready to boil, or near upon it) I mill it once more with great diligence: and then either drink it alone (which is the common *Indian* and *Spanish* way) or putting in one Egg (*white* and *yolk*) without ever beating it before breaking it into the water, and immediately milking it very hard, sometimes playing the *molinet* (and that most, at first especially, to break the Egg, and hinder its curdling) on the top of the water, and sometimes at the bottom. And I have observed, that by this course the *Chocolata* (when taken without an Egg) becomes better tasted than otherwise it would: and, if an Egg be put in, the *Chocolata* is far better dissolved, and

and swims with a greater oyl or fat on the top, then if the Egg were put in sooner, and never so long milled. Nor doth the Egg harden, or *curdle*, if dropped in whole without beating, but dissolve better ( if *nimbly milled*, and that towards the top, where the Egg floats at first ) then if it were beaten much, and put in afterwards by little and little.

I prepare no more at once, then I drink that time : not that I feel any offensiveness in what hath been once heated, and cold, before it be *heated again* for me : but because I finde an observable difference betwixt *fresh* and *old Chocolata-liquour* : the *Spice* evaporating their more subtile parts. But the discrepancy is not such, as is in Pottage, or Gruel, &c. twice heated : nor do I know what reason the *Spaniards* have to prohibite so severely the use of *Chocolata* twice heated. I drink it moderately hot, and dip a piece of *diet-bread*, or *wig*, &c. in it. I drink it without proportion, but commonly half a pint, or more : and this I do twice or thrice in a day ( nay, before Diner ) with a sensible refreshment ; finding it to keep my body soluble enough, as I could wish ; though otherwise I am inclined to colliciveness. Sometimes I put in a spoonful of *Orange-flower-water* ; which gives it a

M

n Mr. Gage Chap. 15. to begin his journey drinks *Chocolatte*, and eats a Maple-bread with a little Conserve : — and in the same Chapter, that we may know how hot he drank it, he calls it a *scalding cup* of his *Chocolatte*.

mod



o Vide *Lipsum*  
in *Elect.*  
*Stuckium* lib.  
3. De *Conviviis*  
*Mercurialem*,  
&c.

p *Augen. Epist.*  
t. 3. l. 10. Ep.  
30.

q *Vallef. Phi.*  
*lof. Sacr.*

most excellent taste, if the water be good: Sometimes ( if I am faint with business ) I put in a glass of good Canary , or Malaga-Sack: in which I imitate o the antient Romans, who did usually mix their old and well-bodied Wines with hot water, which in several houses, call'd *Thermopolia*, was kept always ready for entertainment. And this paradise of theirs is asserted by *Campanella* for the most wholesom way of drinking Wine. And *Cosæus* p tells us, that for a weak Stomach there is not any thing more profitable, then a draught of hot Wine; which I have known experimented in England with good success, not only in the case mentioned, but in sundry *Atrophies*, and *Consumptions*. And *Vallesius* q tells us, that, however it be Proverbially said, that *Wine is the old Man's milk*, yet is it indigestible, if it be not first heated. I have sometimes Aromatized it with a few *Sassafras* Chips, not unpleasantly. They, who would put in *emulsions*, or the like, must dissolve, and mix the *Chocolata* with less water, and having mill'd it well, then put in the *emulsion*, &c. and mill it again.

As to the times, whereat I take it; I observe none particularly, besides the taking of it in a Morning, and Evening: sometimes sooner, sometimes later, as occasion permits. Nor do I regard the quantity, taking frequently a pint, but usually above half a pint: eating tosted wig, or diet-bread often with it. What it may do to others, I know not; but

but I never found my sleep retarded, or disturbed by it: it is possible, some may find it otherwise; for, if Sleep be a *relaxation of the Nerves, and vacation from sense thorough wearisomness of the Organs*, what corroborates Nature, and dispells wearisomness, may (without its disparagement) retard sleep.

I have often wonder'd to hear upon how inconsiderable causes many complain; though they have no occasion to sleep: yet, if they sleep not at certain times, they entertain strange thoughts of their danger of sickness, and condemn the occasion of it presently. So, if they eat not flesh at least once or twice a day, they repute their Stomach to be lost, and imagine they must dy: not regarding, that the end of food is to *repair the defects of Nature*, and prevent its decay for the future: and, when we enjoy these ends, we are not to be solicitous of any particular means further to procure what we already possess. To Eat, to Drink, to Sleep, were here no need thereof, were folly: and he makes Reason submit to Custom, or Con-  
 ceit, who Eats, Drinks, or Sleeps, when he is sensible, there is no necessity of it; and in-  
 jures by a superfluity dangers, he would avoid. Nizolius, the great Ciceronian, slept not of ten years: others have watched longer (as you may read in *Heurnius*) without *Heurnius De morb. cap. cap.*  
 prejudice. Several have never drunk, and  
 others have, to avoid a Dropsie, or the like,<sup>17.</sup>  
 for a long time refrain'd all Drink; and

done as well, or better then others : and the case of Rabbits, Sheep, and sundry Birds, evidence the possibility of the Antient and Modern Relations in this case. As for Eating, except the Maid of *Confolans* ( recited by *Citiesius* ) I can hardly credit any, that have subsisted without that : but without doubt a greater temperance might be practised therein, then is used. And, upon the aforementioned Account, some cry out upon *Chocolata*, as if it destroyed their sleep : others, that, taking it, they can eat no Diner after it, it preventing their appetite thereunto : but, would these people be pleased to think, that *Chocolata* feeds more then their Diner, of the loss of which they complain, and that they are in no danger of dying by hunger, whilst they feed hereon, the formality of eating a set Meal would not be insisted on. I must profess, I never could observe in my self any alteration of my Stomach by drinking *Chocolata* in a Morning and, if any have, it is because their Stomachs are weak, and that their Diner would not digest well with them, if they had it. Is it not sufficient, that *Chocolata* offends not their Stomach ? and that their Blood depurates it self ( upon the taking thereof ) by *Sweat, Urine, Stool, and Expectoration* ? Let them but consider, how apt Meat is to corrupt on the Stomach ; how little it agrees with a weak Stomach ; and how binding is remanency, or earthy parts ( as they call them



hem) are : since that in Fluxes it is recommended for an excellent Remedy to give the reliques of the meat, out of which all the strength is Boil'd or Pressed in Jellies and Cullices: ) and let them see how much they are hurt by being put by such a Meal.

f Vide Alex.  
Trajan. Petron.  
De visu Romanis

I shall conclude with this Advise; that however the *Chocolata* be good; and that such, as stand in need of quick refection, are to be fed with Drinks; which yield a more speedy nourishment, then others: yet is there Caution to be used in the taking even of the best: for thus my *Spaniard* directs, whose Pre-script agrees with my *Chocolata Royal* almost.

*In quantitate hujus potionis sumendæ, & vicibus numero repetitis, est prudens certè cautio adhibenda: nam, si plus justo, & pluries quàm calor Stomachi ferat, ingeratur, tunc adhuc robusto Stomacho multum negotii fa-cessit, & vices repetitæ onera sunt plenis, & maxime quando non ad tollendam, sed ad irritandam famem queritur; inde enim pallor, & nervorum cruditate madentium tremor accidit, & miserabilis ex cruditate macies; inde distentus venter, & decolor vultus; aliquando vertigines, & capitis dolores, & fortè longa febris, & insuperabiles varicosæ ob-structiones, unde Hypochondriaca Melancholia, & ex varia multiplicique cruditate affectus planè contrarii: iis tamen malis minus erunt obnoxii, qui se non tantis deliciis solverint; qui sibi prudenter temperantes im-*

perabunt, & Corpora opere & vero labore exercebunt: hos enim innoxie non tantum Chocolate, sed cibus excipiet, qui non nisi esurienti potest placere. Necesse est enim, ut ex discordi cibo morbi contrarii etiam oriantur: & hac nobis hodie unica videtur ratio, quare in Hypochondriaca Melancholia tam confusa & contraria, & longè inter se dissimilia observentur accidentia; & in plerisque Febris ex contrariis naturæ partibus, quæ in eandem compulsæ redundant. Et hanc propter rationem apud aliquos reor Chocolate noxii opinionem subisse; non quod illud sui ratione mereatur: quinimò, si temperatâ frugalitate adsumatur, magnas utilitates omnes expertum iri, nobis est indubitata fides; neque displicet, sub hac frugalitate, post prandium & cenam (maximè moderata) parùm de Chocolate pitissare; ut utroque calore suam digestionem perficiat Stomachus, & inde facultates roborentur, ac, plerisque impediens ablati, melius perficiatur cœtio: quod te experientia feliciter docebit, & moderatio usum securiorem faciet. (That is, ) There ought to be a great caution, and prudence, used in the number, and quantity of those draughts, we take of Chocolate; for, if it be taken in too large a quantity, or too frequently, so as Nature cannot overcome it, it becomes troublesome even to the most strong Stomachs, and often usage makes it a burthen, especially, if it be taken rather for wantonness, then necessity, to cause, and not allay hunger :

'hunger: for from this cause happens Pale-  
 'ness, tremblings, and Palsies of the moistened  
 'Nerves, and a miserable leaness occasioned  
 'by Crudities; the Belly is distended; the  
 'Countenance is discoloured; sometimes  
 'Giddiness, and other Aches of the Head,  
 'and Chronical Agues, and Fevers, and in-  
 'superable Obstructions in the *Varices*, as  
 'also *Hypochondriacal Melancholy*, and  
 'Diseases of a different Nature springing of  
 'several Crudities: but such are least ob-  
 'noxious to these Distempers, as do not  
 'debilitate themselves with Luxury, who  
 'command their Appetite, and keep their  
 'Bodies in much exercise; for these may  
 'take not only *Chocolata*, but other suste-  
 'nance at any time without danger: no  
 'food being good upon a full Stomach; for  
 'from a repugnancy in the meats ariseth a  
 'repugnancy and difference of Diseases:  
 'which is in my judgment the reason, why  
 'in *Hypochondriacal Melancholy* there is  
 'observed such a variety of Accidents, as  
 'also in many Fevers, by reason of the se-  
 'veral Heterogeneous parts commixing oc-  
 'casionally together. And I suppose, that  
 'the aforesaid cause moved many to ima-  
 'gine *Chocolata* to be somewhat hurtfull;  
 'not that it really deserved that imputa-  
 'tion: for, if it be moderately used, it is my  
 'assured persuasion, that all will finde great  
 'benefit thereby. Nor am I against it in  
 'them, that practise such moderation, if



So did *Motezuma*, as I shewed in the beginning out of *Bernaldus del Castillo*.

they take it after Dinner, or Supper (both of them being moderate) that so Nature, having her own heat augmented by the accessional of *Chocolate*, may better consist, and strengthen the Faculties, and dissipate what might impede digestion. And this Experience will teach: and it is no less true, that it is moderation, that makes it safe to take *Chocolata*. I shall conclude this Discourse with the Judgment of the Learned *Roblez*, Physician in *Peru*, which is as follows.

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The

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The Judgment of Roblez a Licentiate Physician in Peru concerning Cacao, and Chocolata.

**E**L Cacao es frio, y seco, de su templansa: y per esto tienen partes astringentes, con que opila. Esta oi el mas valido de quantas mercadurias oi: y esta tan adelante, que ai majorasgos fundados sobre sus heredades, de a dies, y dose mil ducados de orenta. Es el Cacao summamenta alimentoso, por don de hace dudar de su templansa. El aceito, que sale del, quando se cuesse, es blanco, y granujado, que mas pareceer manteca. Sacasse tostandole en casuela de barro, y no es bueno en metal. Muelese el Cacao en la piedra, y con mano de piedra, estando calientes ambos, y echa masa, se pone en puchero al fuego, en las brazas, y en tomando calor sale encima la manteca, y aceite mas rubio que la llama, y de su mismo sabor: assi mismo se tuesta para hacer la bebida. Pero quando le uan moliendo, o passiendo por la piedra, le mesclan, anis, canela, y algun clauo; echando a tres libras de Cacao, dos onzas de anis, una de canela, y media de clauo,

clavo, con esto, *passan* por la piedra dos o tres veces, y luego le echan en caxitas, ole hacer panecillos de a onsa, que as lo que adellevar una Xicara de bebida: este es el Chocolate regalada, y mas sano, y el, que bebe la gente regalada: otros le echan harina de mais, y en la Nueva-Espanna viscocho, molido, pero esto de mas de hacer, el Chocolate de poca dura, es enfermo, por que la harina, que le echan, no cosida, aun que va tostada es de mal mantenimiento, y causa opilaciones, y otros mil achaques: tambien le mesclan en otras partes con Achiote, por ser a proposito para la orina: el modo de hacer la bebida, es este. Lo cuesse desaziendo la pasta en proporcionada cantidad de agua, poco mas de medio quartillo, y dos onsas de asucar, una de Chocolate, y cuesse en una olleta uno o dos hervores al fuego, y le dan con un molinillo hasta llevar espuma, y quanto caliente se puede se bebe; el que se bebe desta manera, se tiene por mas sano: no soi de parecer, se tome muchas vezes, por que inquieta el cossimiento, y carga el estomago de muchas crudesas. El Cacao comido confitado, por la tarde quieta el suenno des toda la noche. Solo es bueno para los Soldados, que estan de posta. La mantera del Cacao es de grande



grande provecho, para las inflamaciones, y para qual quiera fuegos, y quemaduras; y sobre todo, para el tiempo de las viruelas, y serampion, y ampollas, y llagas, se curan untandose a menudo, con a quel aceite, para el principio, aumento, estado de la Erysipela: es gran sedante, y el mayor anodino para el dolor, que causan sus costras, y postillas: para los labios abiertos, y grietas de las manos, y en el rostro: para las enziás, que manan sangre con dolor, se les quita efectos bien contrarios, pero mejor conocidos por la experientia.

That is in *English* as follows.

**T**He *Cacao-nut* is cold and dry in its  
 temperament: and thereby it hath  
 parts *adstringent*, wherewith it obstructs.  
 It is at this day the most rich *Merchan-*  
*dize* in the *Indies*: and it is of so high an  
 esteem, that they settle by right of  
 Primogeniture on their *Eldest Sons*  
 Farms of *Cacao*, which yield annually  
 twelve thousand Duckets. The *Cacao-*  
*nut* is exceeding *nourishing*, which  
 makes People doubt concerning its par-  
 ticular temperament. The (a) *Oyl*, that <sup>a Rather fat.</sup>  
 comes from it, when it is boil'd, is *white*,  
 and

*b* And into  
bigger bodies  
too, upon long  
infusing, and  
decocting.

*c* This is bet-  
ter done on a  
Stone-table.

*d* This is true, if the *Cacao*-paste  
be long digested on the fire,  
and never mill'd : and it is to be  
seen only whilst it is hot ; for,  
being cold, you have only a  
fatty water, and some large  
lumps of fat floating, whilst  
the lesser grains sink, or strike  
against the side, all in very dif-  
ferent and irregular figures.

and imbodyes into *(b)* Grains, which seems  
rather to be a sort of *butter* : it is to be  
extracted by roasting in a large earthen  
pot [such as we bake meat in] and it doth  
not well in a brass vessel. The Nut is  
grinded in a Stone-Mortar, with a Stone  
pestel, *(c)* both of them being hot ; and, be-  
ing made into a paste, it is set on a  
Charcoal-fire in a Pipkin, and, as it  
heats, there rises up to the top the *but-  
ter, (d)* and an Oyl more  
red then the flame or  
fire [of Charcoal ;] both  
having but one taste. In  
like manner it is roasted  
to make the Drink. And,  
as they grinde, or beat it  
up in a Mortar, they mix  
with the Paste some *A-  
nise-seeds, Cinnamom,* and a few Cloves ; ad-  
ding to three pounds of *Cacao* two ounces  
of *Anise-seeds*, one of *Cinnamom*, and  
half an ounce of *Cloves* : with which  
they grind it on the Stone two or three  
times : and then they put it into  
little boxes, or they make little Cakes of  
one ounce-weight, which is the propor-  
tion of *Chocolata* to make one draught.

This

' This is the Royal *Chocolata*, being the best;  
 ' and most wholesom, and which is drunk  
 ' by the Nobility, and Persons of the best  
 ' rank. Others mix with it the flower  
 ' of *Maiz*: and in *New-Spain* they mix  
 ' therewith the fine Powder of *Bisket-*  
 ' *bread*: but this sort of *Chocolata* lasts not  
 ' long to keep, is not good, but *weak*; be-  
 ' cause the flower of *Maiz*, which they put  
 ' in, is not boil'd, and prepared; and though  
 ' the *Maiz* be prepared by roasting, yet  
 ' it yields but bad nourishment, it begets  
 ' Obstructions, and a *thousand Aches*, and  
 ' Distempers. In other parts they mix  
 ' with the *Cacao-paste* some *Achiote*, which  
 ' serves to provoke (e)

' *Urine*. And the way of  
 ' making their *Chocolata-*  
 ' drink is this. They  
 ' scrape the *Cacao-paste*,  
 ' and dissolve it in a pro-  
 ' portionate quantity of  
 ' water, to a little more  
 ' then half a pint of wa-

e In those hot Countries men  
 are very apt to be troubled with  
 retention of Urine: which is  
 the great reason, they still mix in  
 their Compositions what pro-  
 vokes Urine; it being usual even  
 here for those, that sweat, and  
 transpire much, to make less  
 water: wherefore we see, that  
 in Colds the Urine is more then  
 ordinary.

' ter they put in two ounces of Sugar, and  
 ' one of the *Paste* of *Cacao*, and they let  
 ' it boil in a pot one or two woulms over  
 ' the fire, and then they mill it, till it rise  
 ' with



' with a large froth ; they drink it as *hot*,  
 ' as they can possible : and they, that drink  
 ' it to, think it to be *most wholesom*. And  
 ' I am of the Opinion, that it ought not  
 ' to be drunk too often : because it disturbs

f If it be taken too soon after  
 meals ; in which it hath no pe-  
 culiar inconvenience, but what  
 is general to any Sustenance :  
 and it hurts least, because less  
 apt to corrupt, then other food  
 is.

' ( f ) Concoction , and  
 ' loads the Stomach with  
 ' many Crudities. The  
 ' *Cacao-nut* being made  
 ' into Confects, [ as *Al-*  
 ' *mond-confects* are made ]  
 ' being eaten at night, makes Men to wake  
 ' all night-long : and is therefore good for  
 ' Souldiers, that are upon the Guard. The  
 ' *Cacao-butter* is excellently usefull in case  
 ' of Inflammations, and any scalds, or burns ;  
 ' and especially in the small-Pox, and  
 ' pustulous Tumours, and eruptions from  
 ' heat, and Bruises : they are cured by a-  
 ' nointing therewith in the beginning, en-  
 ' crease, state, or declination of the *E-*  
 ' *rysipelas*, or *St. Antonie's-fire*. It is a great  
 ' cooler, and allayer of pains created by  
 ' Crusts, or Scars upon Sores, and Pimples,  
 ' and in chopped Lips, and Hands, and  
 ' Face, and Gums, which bleed, and are  
 ' dolorous. It produceth effects very various,  
 ' and contrary one to another, which are  
 ' best known by Experience. An

An account of the Distillation of  
the *Cacao*-nut perform'd by  
Mr. Le Febure.

**W**E took eight Ounces of the *Cacao*-nut, and, without hulling them, beat them to a gross powder, and put them in a Retort: we found the body so fix'd, that with an ordinary Fire there came nothing over, but a white liquour in a very small quantity, so clear as water: which we suppose to be the Phlegm. Then we encreased the Fire to such an heat, as if we had been to draw Spirit of Vitriol: then there came over (within the space of seventeen hours Operation) first a Spirit, that was as white as Milk, in Vapours; and, whereas all other Spirits usually ascend in the Recipient, these did descend, and fall to the bottom: and after that (but with a great reverberating Fire; such as he never put to any Vegetable) there came over the Oyl, which was red as blood, but clear; resembling any Tincture for clearness: after it was cold, it became

came thick, like to the Oyl or Butter of Wax for consistence.

The *Caput Mortuum* weighed one ounce, and seven drams; of the Spirit there was about two ounces : and the remainder Oyl, three ounces and an half ; besides what was lost in filtrating, and other contingencies. Upon Separation, the Spirit was as red as blood, like to any exquisite Tincture of *Santals* ; however it were white in the first distilling : which is to be attributed to its being commix'd in the distilling with the subsequent Oyl. The Spirit was not very hot, but exceeding penetrative, and not unpleasant as to smell, or taste, as other Spirits drawn from blood, or flesh, are. But, however it had not any *empyreuma* , nor had that odiousness, which attends Spirits drawn from flesh, yet had it an evident affinity ( but with a peculiar in mildness ) with flesh. The Oyl was not very unpleasant, but miraculously piercing, ( the Volatile Salt, of which there was a great quantity, being unseparated ) and had an unexpressible Aromaticallness upon the tongue ; and seem'd very much to delight and refresh the Heart, and Stomach : but with a great resemblance still of flesh.

The



The *Caput Mortuum* had no taste at all, was exceeding light, and carryed with it in smell Testimonies of an affinity with fat flesh, when broiled.

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We had not time to pursue a more accurate enquiry into the several Liquours, and Parts, into which the first appearances of this Distillation might be further resolved : but that there may be a very great exercise for further Curiosity in the Distilling of this Nut appears hence, that the *Spirit* in a short space became not only *turbid*, but *sowr*, and manifested it self to contain a *Vinegar* : which is not yet examined ; but the Honourable *Robert Boyle* Esq; hath promised to make some *Essays* about it. I would not have any offended at the novelty of finding a *Vinegar* in the *Cacao* ; for it is an *acid ferment*, that we owe our *digestion* to : and we ought rather to admire the Nature of this *Nut*, which includes in it self not only Principles for *nourishment*, and *food*, but even of *concoction* : and from hence we may observe, what it is, that makes it so agreeable to all, even to the *weakest Natures*. Besides Mr. *Boyle* told

me of several Oyls, he observed in it upon Distillation, the several effects and differences whereof are not yet, through want of time, discovered.

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I have nothing more to add now, being just ready to go on Ship-board ; but that I have since met with a Person, whose long Converse and Curiosity in *Spain* have enabled him to judge of *Chocolata* : he informed me of many things so, as to satisfy me, that the course I make *Chocolata* by, is exact : and that, what I have taught *Mortimer* to make, hotter then my ordinary way, is the true *Chocolata* of *Guaxaca*, and most celebrated in the *Spanish* Court. And I am to acquaint the Nation with a piece of his Intelligence, which was my own Conjecture before, that to make *Chocolata* into *Sweetmeats*, and *Almonds*, it is this *Chocolata* of *Guaxaca* ( a Present of which I designed for Her Majesty, had She arrived before my departure, and some whereof is in the hands of the Lady *Wood* ) wherewith the said *Confects* are to be made : for mild *Chocolata* will grow *insipid* upon so great a commixture of *Sugar*. Any one may have

have it at *Mortimer's* made for them;  
 if they be-speak it by the name of  
 the *Queen's Chocolata*, as the other bears  
 the name of *Chocolata-royal*, which had His  
*Majestie's* approbation. There is a sort of  
*Chocolata* made by Sir *H. Bennet*, which, if  
 I have seen the right Prescript, is conform-  
 able to what I understand to be the  
 practise of the *Spanish Court*: yet differs a  
 little from mine, and hath a greater pro-  
 portion of *red Pepper*, then I allow *English-  
 Men*, however it may suit with the *Female  
 Sex* pretty well. It hath *Musk* in it in as  
 great a quantity, as I put *Amber-grise* in  
*mine*: but I think *Musk* not so healthfull  
 in many; for it begets a great fusion and  
 fermentation in the Blood, so as that it cau-  
 seth it to boil, and colour the face: besides  
 that a little *Musk* chewed is observed to  
 make wounds to bleed; with many other  
 Instances, which I have not time to recount,  
 but shall in the next Edition; with Experi-  
 ments of my own about it in the making  
 of a sort of Pies with *Almonds*, *Pistachias*,  
*Marrow*, &c. and *Musk* sometimes, some-  
 times *Amber-grise*: which as it is a Dish I  
 love sometimes, so was I pleased with se-  
 veral Observations I made by putting *Musk*



and *Amber-grise* in it. If any will have any made with *Musk*, and those other Ingredients, which a little diversifie it from my *Chocolata-royal*, or that, which I call the *Queen's Chocolata*, I have told *Mortimer* the way: so as they may have it either *milde*, or as *hot* as Sir *H. B.* makes it.

The Gentleman further informed me, that he found *Chocolata* to keep his body *soluble* (as did my much Honoured and Learned Friend Dr. *Quatremaine*, Physician-in-Ordinary to His Majesty: ) and if it ever fail'd to do so, he then took it in bed, half an hour before he rose, and it never fail'd to give him a Stool, as soon as he was up. He told me, he used to put *butter* in his: and he told me, that they used to take it in *Spain* after they have taken a *little conserve*, *bisket*, or a *salt bit* in a morning. He further told me upon his *Experience*, that, being desperately vex'd with the *Piles*, he took the Butter of *Cacao* (which is the fat I mention, that arises from digesting the *Cacao's simple paste* in water, till the Fat be drawn out ) and melted it, and anointed therewith, and it did not only cure him presently, but that he never had them since. I have not time to enlarge on the several

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Experiments I have since had account of: but I have many more Reasons to recommend it in case of *Hypochondriacal* Melancholy. But I must conclude, adding the Discourse of St. *Austin*, which I hinted at before, because it contains some *Observations* not ordinary in Physick.

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The Judgment of St. *Austin* in his Book Of  
*the City of God*: which was too large  
 to be inserted before, pag. 136.

*Lib. 14. Ch. 23.*

— **T**His Contention, Fight, and altercation of Lust, and Will, this need of Lust to the sufficiency of the Will, had not been laid upon the wedlock in *Paradise*, but that *disobedience* should be the Plague to the Sin of *disobedience*: otherwise *those Members had obeyed the Will, as well as the rest*. The seed of Generation should have been sown in the Vessel, as Corn is now in the Field. What I would say more in this kind, Modesty bids me forbear a little, and first ask pardon of chaste ears. I need not do it, but might proceed in any Discourse pertinent to this  
 Theme,

Theme, freely, and without fear to be obscene, or imputation of impurity to the words, *being as honesty spoken of these, as others are of any other bodily Members.* Therefore he, that readeth this with unchaste suggestions, let him accuse *his own guilt*, not the nature of the *Question*. —

*Ibid. Ch. 24.*

Man therefore should have sown the Seed, and Woman have received it, as need required, without all Lust, and *as their wills desired*: for, as now we are, our articulate Members do not only obey our Will, our Hands, or Feet, or so; but even those also, that we move but by small Sinews, and Tendons, we contract, and turn them as we list: as you see in the voluntary motions of the Mouth, and Face. And the Lungs, the softest of all the Entrails, except the Marrow, and therefore placed in the Arches of the Breast, far more safely to take in and give out the Breath, and to proportionate the Voice, do serve a Man's Will entirely, like a pair of Smith's or Organ's Bellows, to breathe, to speak, to cry, or to sing. I omit, that it is natural in some Creatures, if they feel any thing  
bite

bite them, to move the skin there, where it bites, and no where else ; shaking of not only Flies, but even Darts, or Shafts, by this motion. Man cannot do this : what then ? could not God give it unto what Creatures he listeth ? Even so might Man have had the Obedience of his *lower parts*, which his own Disobedience debarred. For God could easily have made him with all his Members subjected to his Will, even that, which now is not moved, but by Lust : for we see some Mens natures far different from other-some ; acting those things strangely with their Bodies, which others cannot do, nor hardly will believe. There are, that can move their Ears, one, or both, as they please. There are, that can move all their Hair towards their forehead, and back again, and never move their Heads.

There are, that can swallow you twenty things whole, and, contracting but their Guts a little, give you every thing up as whole, as if they had put it into a bagg. There are, that can counterfeit the voices of Birds, and other Men, so cunningly, that, unless you see them, you cannot discern them for your hearts. There are, that can break wind *backward* so artificially, (a) that you

*a Lud. Vives upon this place tells us, that there was such an one, a German, about Maximilian's court, and his Son Philip's, that would have rehearsed any Verse whatsoever with his tail.*

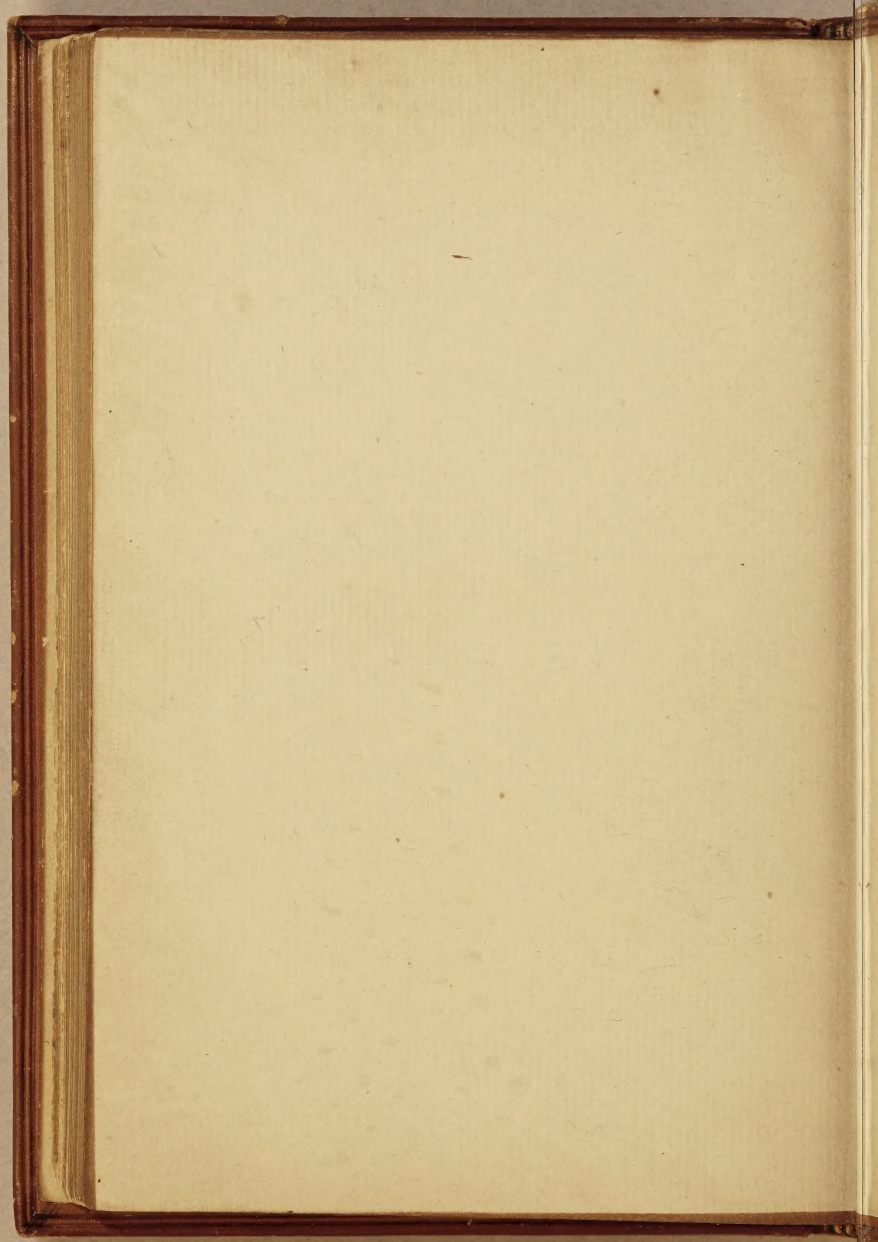


you would think they *sung*. I have seen one  
 sweat (b) when he lifted : and it is sure, that  
 some can weep when they list, and shed  
 Tears plentifully. But it is wonderfull, that  
 divers of the Brethren tryed of late in a  
 Priest call'd *Restitutus*, of the Village of  
*Calaman*, who, when he pleased ( and they  
 requested him to shew them this rare Ex-  
 periment ) at the feining of a lamentable  
 sound drew himself into such an Extasie,  
 that he lay as dead, senseless of all punish-  
 ing, pricking, nay even of burning, but that  
 he felt it sore after his waking. And this  
 Rapture was found to be true, and not  
 counterfeit in him, in that he lay still with-  
 out any breathing : yet he said afterwards,  
 that, if one spake aloud, he thought he  
 heard him, as if he were afar of. Seeing  
 therefore that, in this *frail State* of ours, the  
 Body serveth the Will in such extraordi-  
 nary effects ; why should we not believe, that,  
 before his disobedience, the first Man  
 might have had his means, and Members  
 of Generation, without Lust ? But he, ta-  
 king delight in himself, was left by God  
 unro himself, because he would not obey  
 God. *And this proves his misery the plainer,*  
*in that he cannot live, as he would.*

FINIS.

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